# Statement of Basis of the Federal Operating Permit

**Union Carbide Corporation** 

Site/Area Name: Low Pressure Oxo Unit Physical Location: 3301 5th Ave S Nearest City: Texas City County: Galveston

> Permit Number: O1919 Project Type: Minor Revision

Standard Industrial Classification (SIC) Code: 2869 SIC Name: Industrial Organic Chemicals

This Statement of Basis sets forth the legal and factual basis for the draft changes to the permit conditions resulting from the minor revision project in accordance with 30 TAC §122.201(a)(4). The applicant has submitted an application for a minor permit revision per §§ 122.215-217. This document may include the following information:

A description of the facility/area process description;

A description of the revision project;

A basis for applying permit shields;

A list of the federal regulatory applicability determinations;

A table listing the determination of applicable requirements;

A list of the New Source Review Requirements:

The rationale for periodic monitoring methods selected;

The rationale for compliance assurance methods selected;

A compliance status; and

A list of available unit attribute forms.

Prepared on: June 29, 2016

## Operating Permit Basis of Determination

#### **Description of Revisions**

The permit has been revised to add the following emission sources [Unit IDs] and associated applicability determinations:

- One Flare [C09A032]
  - o Chapter 111.A.1. (Visible Emissions)
  - o Chapter 115.B.2. (Vent Gas Control)
  - NSPS A
- One Fugitive Emission Source [F09A001]
  - o Chapter 115.D.3 (Petroleum Refining and Petrochemical Processes)
  - o Chapter 115.H.3. (NRVOC Fugitive Emissions)
- Four Tanks [T33F05, T33F06, T33H26, & T33H27]
  - o Chapter 115.B.2. (Vent Gas Control)

### **Permit Area Process Description**

There are three LPO production units - Unit 1, Unit 2 and Unit 3, and one pilot plant - Unit 4. Ethylene, propylene, butene, and hydrogen are fed to the LPO Units to make C3-C5 aldehydes and C4 alcohols. Products manufactured from the aldehydes produced in the LPO Units include chemical intermediated and industrial solvents, acidifiers, and neutralizers.

Unit 1: The Unit 1 process reacts ethylene and butene with syn gas in the presence of a catalyst to form aldehydes which are then either refined as a final product or used as feedstocks to other units in the plant (covered by other permits). This unit produces a three-carbon aldehyde (C3), propionaldehyde, and a five-carbon aldehyde (C5). Propionaldehyde is subject to the requirements of HON and is listed as a SOCMI chemical as referenced by 40 CFR 60, Subparts VV, NNN, and RRR and by 30 TAC 115. VOC, PM<sub>10</sub>, and HAPs pollutants are emitted from emission units at Unit 1 only when manufacturing propionaldehyde. Equipment included in Unit 1 include: Catalyst Handling Facilities, Reaction and Storage.

<u>Catalyst Handling Facilities</u> - Materials used to make the catalyst precursor are mixed in this facility and include liquids from the Reaction area and solids such as powders. Once mixed, the catalyst precursor materials can be fed to either Unit 1 or Unit 2 or to the Product Storage area for later use.

<u>Reaction</u> - Syn gas, olefin (either ethylene or butene), and catalyst precursor are fed to the reactors, where they are reacted together to form aldehyde product in the presence of the catalyst. Inert gases and excess gaseous feed are vented from the reactors and are either recovered or sent to the Syn Gas Flare or the Mixed Fuel System. Crude aldehyde product is separated from the catalyst and purified using a series of heat exchangers and distillation units. Vents from these distillation units are either recycled within the system or routed to the Syn Gas Flare or the Mixed Fuel System. A small organic liquid stream is sometimes removed and sent to storage for disposal or reuse. The crude and purified aldehyde products are stored in Unit Tanks.

<u>Storage</u> - Liquid products and catalysts are stored in area tanks. The products can be transferred from these tanks back to the Unit or to the In-Plant Distribution area. Vents from these tanks are routed to the Syn Gas Flare.

**Unit 2**: Ethylene is reacted with syn gas in the presence of a catalyst to form propionaldehyde. The propionaldehyde is then used as feed to other units. Equipment included in Unit 2 are: Catalyst Handling Facilities (shared with Unit 1), Reaction, and Storage (shared with Unit 1).

<u>Reaction</u> - Syn gas, ethylene, hydrogen, and catalyst precursor are fed and then reacted together to form aldehyde product in the presence of the catalyst. Inert gases and excess gaseous feed are vented from the

reactors and are recovered or sent to the Syn Gas Flare or the Mixed Fuel System. Crude aldehyde product is separated from the catalyst and purified using a series of heat exchangers and distillation units. Vents from these distillation units are either recycled within the system or routed to the Syn Gas Flare or the Mixed Fuel System. A small organic liquid stream is sometimes removed and sent to storage for disposal or reuse. Aldehyde product is stored in Unit Tanks or sent to the In-Plant Distribution area.

**Unit 3:** Proylene, syn gas, and hydrogen are fed to Unit 3 where n-butyraldehyde, isobutyraldehyde, and a mixture of these aldehydes is produced. The mixture is further reacted with hydrogen to form a crude mixture of normal butanol and isobutanol. This mixture is purified in the Refining system into normal butanol and isbutanol products. These products are then either sold or used as feeds in downstream units. Unit 3 consists of the following systems: LPO Reaction System, Hydrogenation, Refining, and Storage.

<u>LPO Reaction System</u> - Catalyst precursor is mixed batchwise in the catalyst mix facilities. Syn gas, propylene, and catalyst precursor are fed to the reactors, where they are reacted together to form normal and isobutyraldehyde in the presence of the catalyst. Inert gases and excess gaseous feed are vented from the reactors and are either recovered or sent to the Syn Gas Flare or the Mixed Fuel System. Crude aldehyde product is separated from the catalyst and purified using a series of heat exchangers and distillation units. Vents from these distillation units are either recycled within the system or routed to the Syn Gas Flare or the Mixed Fuel System. A small organic liquid stream is sometimes removed and sent to storage for disposal or reuse. The crude and purified aldehyde products are stored in Unit Tanks or in the In-Plant Distribution Tanks. Another byproduct stream is produced and routed to the Hydrocarbons Unit.

<u>Hydrogenation</u> - Mixed normal and isobutyraldehyde and hydrogen are fed to the hydrogenation system, where they are reacted over a solid catalyst to form butanol. There are two similar but separate systems which operate in parallel. A third, smaller system is fed hydrogen and recycled material from the Refining System to make additional butanol. Inert gases and excess gaseous feed is vented to the Syn Gas Flare or the Mixed Fuel System. The crude mixed butanol is stored in Unit Tanks or in In-Plant Distribution Tanks.

<u>Refining</u> - This system uses five distillation units to separate and purify isobutanol and normal butanol. Gaseous vents from the distillation units are vented to the Syn Gas Flare or the Mixed Fuel System. A small organic liquid stream is removed and is sent to storage for disposal or reuse. Product isobutanol and normal butanol are stored in Unit Tanks or in the In-Plant Distribution Tanks.

<u>Storage</u> - Liquid products and intermediates from the Unit can be stored in the tanks in this area and then can be transferred from these tanks back to the Unit or to the In-Plant Distribution area. Vents from these tanks are routed to the Syn Gas Flare.

Unit 4 (Pilot Plant) - Unit 4 is operated in batch mode on an infrequent basis. The system is used to study the reaction of an aldehyde with hydrogen to make an alcohol. Feed aldehyde and hydrogen are fed to a reactor, where they are reacted to form an alcohol in the presence of a catalyst. Excess feeds and inert gases are vented to the Fuel and Raw Materials (FARM) Flare. The FARM Flare is addressed in the Hydrocarbons Unit application. Product alcohol flows to two make tanks. Sample taps throughout Unit 4 allow samples to be condensed where liquid can be drawn off and gas vented to the FARM Flare header. The following types of equipment are present at the pilot plant and either do not have any potentially applicable requirements or are subject only to site-wide requirements: Feed tank, Small Reactors, Cycle Gas Compressors, and Make Tanks.

#### **FOPs at Site**

The "application area" consists of the emission units and that portion of the site included in the application and this permit. Multiple FOPs may be issued to a site in accordance with 30 TAC § 122.201(e). When there is only one area for the site, then the application information and permit will include all units at the site. Additional FOPs that exist at the site, if any, are listed below.

Additional FOPs: 01433, 01913, 01914, 01916, 01920, 01921, 01923, 01924

#### **Major Source Pollutants**

The table below specifies the pollutants for which the site is a major source:

Major Pollutants VOC, SO<sub>2</sub>, PM, NO<sub>2</sub>, HAPs, CO

### Reading State of Texas's Federal Operating Permit

The Title V Federal Operating Permit (FOP) lists all state and federal air emission regulations and New Source Review (NSR) authorizations (collectively known as "applicable requirements") that apply at a particular site or permit area (in the event a site has multiple FOPs). **The FOP does not authorize new emissions or new construction activities.** The FOP begins with an introductory page which is common to all Title V permits. This page gives the details of the company, states the authority of the issuing agency, requires the company to operate in accordance with this permit and 30 Texas Administrative Code (TAC) Chapter 122, requires adherence with NSR requirements of 30 TAC Chapter 116, and finally indicates the permit number and the issuance date.

This is followed by the table of contents, which is generally composed of the following elements. Not all permits will have all of the elements.

- General Terms and Conditions
- Special Terms and Conditions
  - Emissions Limitations and Standards, Monitoring and Testing, and Recordkeeping and Reporting
  - Additional Monitoring Requirements
  - o New Source Review Authorization Requirements
  - o Compliance Requirements
  - Protection of Stratosphere Ozone
  - o Permit Location
  - Permit Shield (30 TAC § 122.148)
- Attachments
  - Applicable Requirements Summary
    - Unit Summary
    - Applicable Requirements Summary
  - Additional Monitoring Requirements
  - o Permit Shield
  - o New Source Review Authorization References
  - o Compliance Plan
  - o Alternative Requirements
- Appendix A
  - o Acronym list

#### General Terms and Conditions

The General Terms and Conditions are the same and appear in all permits. The first paragraph lists the specific citations for 30 TAC Chapter 122 requirements that apply to all Title V permit holders. The second paragraph describes the requirements for record retention. The third paragraph provides details for voiding the permit, if applicable. The fourth paragraph states that the permit holder shall comply with the requirements of 30 TAC Chapter 116 by obtaining a New Source Review authorization prior to new construction or modification of emission units located in the area covered by this permit. The fifth paragraph provides details on submission of reports required by the permit.

## Special Terms and Conditions

Emissions Limitations and Standards, Monitoring and Testing, and Recordkeeping and Reporting. The TCEQ has designated certain applicable requirements as site-wide requirements. A site-wide requirement is a requirement that applies uniformly to all the units or activities at the site. Units with only site-wide

requirements are addressed on Form OP-REQ1 and are not required to be listed separately on a OP-UA Form or Form OP-SUM. Form OP-SUM must list all units addressed in the application and provide identifying information, applicable OP-UA Forms, and preconstruction authorizations. The various OP-UA Forms provide the characteristics of each unit from which applicable requirements are established. Some exceptions exist as a few units may have both site-wide requirements and unit specific requirements.

Other conditions. The other entries under special terms and conditions are in general terms referring to compliance with the more detailed data listed in the attachments.

#### Attachments

Applicable Requirements Summary. The first attachment, the Applicable Requirements Summary, has two tables, addressing unit specific requirements. The first table, the Unit Summary, includes a list of units with applicable requirements, the unit type, the applicable regulation, and the requirement driver. The intent of the requirement driver is to inform the reader that a given unit may have several different operating scenarios and the differences between those operating scenarios.

The applicable requirements summary table provides the detailed citations of the rules that apply to the various units. For each unit and operating scenario, there is an added modifier called the "index number," detailed citations specifying monitoring and testing requirements, recordkeeping requirements, and reporting requirements. The data for this table are based on data supplied by the applicant on the OP-SUM and various OP-UA forms.

Additional Monitoring Requirement. The next attachment includes additional monitoring the applicant must perform to ensure compliance with the applicable standard. Compliance assurance monitoring (CAM) is often required to provide a reasonable assurance of compliance with applicable emission limitations/standards for large emission units that use control devices to achieve compliance with applicant requirements. When necessary, periodic monitoring (PM) requirements are specified for certain parameters (i.e. feed rates, flow rates, temperature, fuel type and consumption, etc.) to determine if a term and condition or emission unit is operating within specified limits to control emissions. These additional monitoring approaches may be required for two reasons. First, the applicable rules do not adequately specify monitoring requirements (exception- Maximum Achievable Control Technology Standards (MACTs) generally have sufficient monitoring), and second, monitoring may be required to fill gaps in the monitoring requirements of certain applicable requirements. In situations where the NSR permit is the applicable requirement requiring extra monitoring for a specific emission unit, the preferred solution is to have the monitoring requirements in the NSR permit updated so that all NSR requirements are consolidated in the NSR permit.

Permit Shield. A permit may or may not have a permit shield, depending on whether an applicant has applied for, and justified the granting of, a permit shield. A permit shield is a special condition included in the permit document stating that compliance with the conditions of the permit shall be deemed compliance with the specified potentially applicable requirement(s) or specified applicable state-only requirement(s).

New Source Review Authorization References. All activities which are related to emissions in the state of Texas must have a NSR authorization prior to beginning construction. This section lists all units in the permit and the NSR authorization that allowed the unit to be constructed or modified. Units that do not have unit specific applicable requirements other than the NSR authorization do not need to be listed in this attachment. While NSR permits are not physically a part of the Title V permit, they are legally incorporated into the Title V permit by reference. Those NSR permits whose emissions exceed certain PSD/NA thresholds must also undergo a Federal review of federally regulated pollutants in addition to review for state regulated pollutants.

Compliance Plan. A permit may have a compliance schedule attachment for listing corrective actions plans for any emission unit that is out of compliance with an applicable requirement.

Alternative Requirements. This attachment will list any alternative monitoring plans or alternative means of compliance for applicable requirements that have been approved by the EPA Administrator and/or the TCEQ Executive Director.

## Appendix A

Acronym list. This attachment lists the common acronyms used when discussing the FOPs.

# Stationary vents subject to 30 TAC Chapter 111, Subchapter A, § 111.111(a)(1)(B) addressed in the Special Terms and Conditions

The site contains stationary vents with a flowrate less than 100,000 actual cubic feet per minute (acfm) and constructed either before or after January 31, 1972 which are limited, over a six-minute average, to 20% opacity as required by 30 TAC § 111.111(a)(1)(B). As a site may have a large number of stationary vents that fall into this category, they are not required to be listed individually in the permit's Applicable Requirement Summary. This is consistent with EPA's White Paper for Streamlined Development of Part 70 Permit Applications, July 10, 1995, that states that requirements that apply identically to emission units at a site can be treated on a generic basis such as source-wide opacity limits.

Periodic monitoring is specified in Special Term and Condition 3 for stationary vents subject to 30 TAC § 111.111(a)(1)(B) to verify compliance with the 20% opacity limit. These vents are not expected to produce visible emissions during normal operation. The TCEQ evaluated the probability of these sources violating the opacity standards and determined that there is a very low potential that an opacity standard would be exceeded. It was determined that continuous monitoring for these sources is not warranted as there would be very limited environmental benefit in continuously monitoring sources that have a low potential to produce visible emissions. Therefore, the TCEQ set the visible observation monitoring frequency for these sources to once per calendar quarter.

The TCEQ has exempted vents that are not capable of producing visible emissions from periodic monitoring requirements. These vents include sources of colorless VOCs, non-fuming liquids, and other materials that cannot produce emissions that obstruct the transmission of light. Passive ventilation vents, such as plumbing vents, are also included in this category. Since this category of vents are not capable of producing opacity due to the physical or chemical characteristics of the emission source, periodic monitoring is not required as it would not yield any additional data to assure compliance with the 20% opacity standard of 30 TAC § 111.111(a)(1)(B).

In the event that visible emissions are detected, either through the quarterly observation or other credible evidence, such as observations from company personnel, the permit holder shall either report a deviation or perform a Test Method 9 observation to determine the opacity consistent with the 6-minute averaging time specified in 30 TAC  $\S$  111.111(a)(1)(B). An additional provision is included to monitor combustion sources more frequently than quarterly if alternate fuels are burned for periods greater than 24 consecutive hours. This will address possible emissions that may arise when switching fuel types.

Stationary Vents subject to 30 TAC Chapter 111 not addressed in the Special Terms and Conditions All other stationary vents subject to 30 TAC Chapter 111 not covered in the Special Terms and Conditions are listed in the permit's Applicable Requirement Summary. The basis for the applicability determinations for these vents are listed in the Determination of Applicable Requirements table.

## **Federal Regulatory Applicability Determinations**

The following chart summarizes the applicability of the principal air pollution regulatory programs to the permit area:

Regulatory Program	Applicability (Yes/No)
Prevention of Significant Deterioration (PSD)	No
Nonattainment New Source Review (NNSR)	No
Minor NSR	Yes
40 CFR Part 60 - New Source Performance Standards	Yes
40 CFR Part 61 - National Emission Standards for Hazardous Air Pollutants (NESHAPs)	Yes
40 CFR Part 63 - NESHAPs for Source Categories	Yes
Title IV (Acid Rain) of the Clean Air Act (CAA)	No
Title V (Federal Operating Permits) of the CAA	Yes
Title VI (Stratospheric Ozone Protection) of the CAA	No
CAIR (Clean Air Interstate Rule)	No

## **Basis for Applying Permit Shields**

An operating permit applicant has the opportunity to specifically request a permit shield to document that specific applicable requirements do not apply to emission units in the permit. A permit shield is a special condition stating that compliance with the conditions of the permit shall be deemed compliance with the specified potentially applicable requirements or specified potentially applicable state-only requirements. A permit shield has been requested in the application for specific emission units. For the permit shield requests that have been approved, the basis of determination for regulations that the owner/operator need not comply with are located in the "Permit Shield" attachment of the permit.

## **Insignificant Activities**

In general, units not meeting the criteria for inclusion on either Form OP-SUM or Form OP-REQ1 are not required to be addressed in the operating permit application. Examples of these types of units include, but are not limited to, the following:

- 1. Office activities such as photocopying, blueprint copying, and photographic processes.
- 2. Sanitary sewage collection and treatment facilities other than those used to incinerate wastewater treatment plant sludge. Stacks or vents for sanitary sewer plumbing traps are also included.
- 3. Food preparation facilities including, but not limited to, restaurants and cafeterias used for preparing food or beverages primarily for consumption on the premises.
- 4. Outdoor barbecue pits, campfires, and fireplaces.
- 5. Laundry dryers, extractors, and tumblers processing bedding, clothing, or other fabric items generated primarily at the premises. This does not include emissions from dry cleaning systems using perchloroethylene or petroleum solvents.
- 6. Facilities storing only dry, sweet natural gas, including natural gas pressure regulator vents.

- 7. Any air separation or other industrial gas production, storage, or packaging facility. Industrial gases, for purposes of this list, include only oxygen, nitrogen, helium, neon, argon, krypton, and xenon.
- 8. Storage and handling of sealed portable containers, cylinders, or sealed drums.
- 9. Vehicle exhaust from maintenance or repair shops.
- 10. Storage and use of non-VOC products or equipment for maintaining motor vehicles operated at the site (including but not limited to, antifreeze and fuel additives).
- 11. Air contaminant detectors and recorders, combustion controllers and shut-off devices, product analyzers, laboratory analyzers, continuous emissions monitors, other analyzers and monitors, and emissions associated with sampling activities. Exception to this category includes sampling activities that are deemed fugitive emissions and under a regulatory leak detection and repair program.
- 12. Bench scale laboratory equipment and laboratory equipment used exclusively for chemical and physical analysis, including but not limited to, assorted vacuum producing devices and laboratory fume hoods.
- 13. Steam vents, steam leaks, and steam safety relief valves, provided the steam (or boiler feedwater) has not contacted other materials or fluids containing regulated air pollutants other than boiler water treatment chemicals.
- 14. Storage of water that has not contacted other materials or fluids containing regulated air pollutants other than boiler water treatment chemicals.
- 15. Well cellars.
- 16. Fire or emergency response equipment and training, including but not limited to, use of fire control equipment including equipment testing and training, and open burning of materials or fuels associated with firefighting training.
- 17. Crucible or pot furnaces with a brim full capacity of less than 450 cubic inches of any molten metal.
- 18. Equipment used exclusively for the melting or application of wax.
- 19. All closed tumblers used for the cleaning or deburring of metal products without abrasive blasting, and all open tumblers with a batch capacity of 1,000 lbs. or less.
- 20. Shell core and shell mold manufacturing machines.
- 21. Sand or investment molds with a capacity of 100 lbs. or less used for the casting of metals;
- 22. Equipment used for inspection of metal products.
- 23. Equipment used exclusively for rolling, forging, pressing, drawing, spinning, or extruding either hot or cold metals by some mechanical means.
- 24. Instrument systems utilizing air, natural gas, nitrogen, oxygen, carbon dioxide, helium, neon, argon, krypton, and xenon.
- 25. Battery recharging areas.
- 26. Brazing, soldering, or welding equipment.

#### **Determination of Applicable Requirements**

The tables below include the applicability determinations for the emission units, the index number(s) where applicable, and all relevant unit attribute information used to form the basis of the applicability determination. The unit attribute information is a description of the physical properties of an emission unit which is used to determine the requirements to which the permit holder must comply. For more information about the descriptions of the unit attributes specific Unit Attribute Forms may be viewed at <a href="https://www.tceq.texas.gov/permitting/air/nav/air\_all\_ua\_forms.html">www.tceq.texas.gov/permitting/air/nav/air\_all\_ua\_forms.html</a>.

A list of unit attribute forms is included at the end of this document. Some examples of unit attributes include construction date; product stored in a tank; boiler fuel type; etc.. Generally, multiple attributes are needed to determine the requirements for a given emission unit and index number. The table below lists these attributes in the column entitled "Basis of Determination." Attributes that demonstrate that an applicable requirement applies will be the factual basis for the specific citations in an applicable requirement that apply to a unit for that index number. The TCEQ Air Permits Division has developed flowcharts for determining applicability of state and federal regulations based on the unit attribute information in a Decision Support System (DSS). These flowcharts can be accessed via the internet at <a href="https://www.tceq.texas.gov/permitting/air/nav/air\_supportsys.html">www.tceq.texas.gov/permitting/air/nav/air\_supportsys.html</a>. The Air Permits Division staff may also be contacted for assistance at (512) 239-1250.

The attributes for each unit and corresponding index number provide the basis for determining the specific legal citations in an applicable requirement that apply, including emission limitations or standards, monitoring, recordkeeping, and reporting. The rules were found to apply or not apply by using the unit attributes as answers to decision questions found in the flowcharts of the DSS. Some additional attributes indicate which legal citations of a rule apply. The legal citations that apply to each emission unit may be found in the Applicable Requirements Summary table of the draft permit. There may be some entries or rows of units and rules not found in the permit, or if the permit contains a permit shield, repeated in the permit shield area. These are sets of attributes that describe negative applicability, or; in other words, the reason why a potentially applicable requirement does not apply.

If applicability determinations have been made which differ from the available flowcharts, an explanation of the decisions involved in the applicability determination is specified in the column "Changes and Exceptions to RRT." If there were no exceptions to the DSS, then this column has been removed.

The draft permit includes all emission limitations or standards, monitoring, recordkeeping and reporting required by each applicable requirement. If an applicable requirement does not require monitoring, recordkeeping, or reporting, the word "None" will appear in the Applicable Requirements Summary table. If additional periodic monitoring is required for an applicable requirement, it will be explained in detail in the portion of this document entitled "Rationale for Compliance Assurance Monitoring (CAM)/ Periodic Monitoring Methods Selected."

When attributes demonstrate that a unit is not subject to an applicable requirement, the applicant may request a permit shield for those items. The portion of this document entitled "Basis for Applying Permit Shields" specifies which units, if any, have a permit shield.

#### Operational Flexibility

When an emission unit has multiple operating scenarios, it will have a different index number associated with each operating condition. This means that units are permitted to operate under multiple operating conditions. The applicable requirements for each operating condition are determined by a unique set of unit attributes. For example, a tank may store two different products at different points in time. The tank may, therefore, need to comply with two distinct sets of requirements, depending on the product that is stored. Both sets of requirements are included in the permit, so that the permit holder may store either product in the tank.

# **Determination of Applicable Requirements**

Unit ID	Regulation	Index Number	Basis of Determination*
T10A2600	30 TAC Chapter	R5112-1	Today's Date = Today's date is March 1, 2013 or later.
	115, Storage of VOCs		Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.
			Tank Description = Tank using a submerged fill pipe and vapor recovery system
			True Vapor Pressure = True vapor pressure is less than 1.0 psia
			Product Stored = VOC other than crude oil or condensate
			Storage Capacity = Capacity is greater than 1,000 gallons but less than or equal to 25,000 gallons
T10A2600	30 TAC Chapter	R5112-2	Today's Date = Today's date is March 1, 2013 or later.
	115, Storage of VOCs		Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.
			Tank Description = Tank using a submerged fill pipe and vapor recovery system
			True Vapor Pressure = True vapor pressure is greater than or equal to 1.5 psia
			Product Stored = VOC other than crude oil or condensate
			Storage Capacity = Capacity is greater than 1,000 gallons but less than or equal to 25,000 gallons
			Control Device Type = Flare
T10A2600	40 CFR Part 60,	60K-1	Construction/Modification Date = After March 8, 1974 and on or before May 19, 1978
	Subpart K		Storage Capacity = Capacity is 40,000 gallons (151,416 liters) or less
T10A2601	30 TAC Chapter		Today's Date = Today's date is March 1, 2013 or later.
	115, Storage of VOCs		Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.
			Tank Description = Tank using a submerged fill pipe and vapor recovery system
			True Vapor Pressure = True vapor pressure is less than 1.0 psia
			Product Stored = VOC other than crude oil or condensate
			Storage Capacity = Capacity is greater than 1,000 gallons but less than or equal to 25,000 gallons
T10A2601	30 TAC Chapter	R5112-2	Today's Date = Today's date is March 1, 2013 or later.
	115, Storage of VOCs		Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.
			Tank Description = Tank using a submerged fill pipe and vapor recovery system
			True Vapor Pressure = True vapor pressure is greater than or equal to 1.5 psia
			Product Stored = VOC other than crude oil or condensate
			Storage Capacity = Capacity is greater than 1,000 gallons but less than or equal to 25,000 gallons
			Control Device Type = Flare
T10A2601	40 CFR Part 60,	60K-1	Construction/Modification Date = After March 8, 1974 and on or before May 19, 1978
	Subpart K		Storage Capacity = Capacity is 40,000 gallons (151,416 liters) or less

Unit ID	Regulation	Index Number	Basis of Determination*
	30 TAC Chapter	R5112-1	Today's Date = Today's date is March 1, 2013 or later.
	115, Storage of VOCs		Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.
			Tank Description = Tank using a submerged fill pipe and vapor recovery system
			True Vapor Pressure = True vapor pressure is greater than or equal to 1.5 psia
			Product Stored = VOC other than crude oil or condensate
			Storage Capacity = Capacity is greater than 25,000 gallons but less than or equal to 40,000 gallons
			Control Device Type = Flare
T10A2610	40 CFR Part 60,	60K-1	Construction/Modification Date = After March 8, 1974 and on or before May 19, 1978
	Subpart K		Storage Capacity = Capacity is 40,000 gallons (151,416 liters) or less
T10A2610	40 CFR Part 63, Subpart G	63G-1A	MACT Subpart F/G Applicability = The unit is a Group 1 vessel (as defined in Table 5 for existing sources or Table 6 for new sources of 40 CFR 63, Subpart G).
			Closed Vent System = Closed vent system is routing emissions to a process or fuel gas system, or is subject to § 63.148 of Subpart G
			NESHAP Subpart Y Applicability = The unit is not subject to 40 CFR Part 61, Subpart Y.
			Hard Piping = The closed vent system is constructed of hard piping.
			Bypass Lines = Closed vent system has no by-pass lines.
			Maximum TVP = Maximum true vapor pressure of the total organic HAP in the liquid is less than 11.11 psi (76.6 kPa)
			Control Device Type = Flare
			Emission Control Type = Closed vent system (CVS) and control device (fixed roof)
T10A2610	40 CFR Part 63, Subpart G	63G-1B	MACT Subpart F/G Applicability = The unit is a Group 1 vessel (as defined in Table 5 for existing sources or Table 6 for new sources of 40 CFR 63, Subpart G).
			Closed Vent System = Closed vent system is routing emissions to a process or fuel gas system, or is subject to § 63.148 of Subpart G
			NESHAP Subpart Y Applicability = The unit is not subject to 40 CFR Part 61, Subpart Y.
			Hard Piping = The closed vent system is constructed of hard piping.
			Bypass Lines = Closed vent system has no by-pass lines.
			Maximum TVP = Maximum true vapor pressure of the total organic HAP in the liquid is less than 11.11 psi (76.6 kPa)
			Control Device Type = Flare
			Emission Control Type = Closed vent system (CVS) and control device (fixed roof)

Unit ID	Regulation	Index Number	Basis of Determination*
T10A2610	40 CFR Part 63, Subpart G	63G-2	MACT Subpart F/G Applicability = The unit is a Group 1 vessel (as defined in Table 5 for existing sources or Table 6 for new sources of 40 CFR 63, Subpart G).
			Closed Vent System = Closed vent system is routing emissions to a process or fuel gas system, or is subject to § 63.148 of Subpart G
			NESHAP Subpart Y Applicability = The unit is not subject to 40 CFR Part 61, Subpart Y.
			Hard Piping = The closed vent system is constructed of hard piping.
			Bypass Lines = Closed vent system has no by-pass lines.
			Maximum TVP = Maximum true vapor pressure of the total organic HAP in the liquid is less than 11.11 psi (76.6 kPa)
			Control Device Type = Flare
			Emission Control Type = Closed vent system (CVS) and control device (fixed roof)
T10A2611	30 TAC Chapter	R5112-1	Today's Date = Today's date is March 1, 2013 or later.
	115, Storage of VOCs		Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.
			Tank Description = Tank using a submerged fill pipe and vapor recovery system
			True Vapor Pressure = True vapor pressure is greater than or equal to 1.5 psia
			Product Stored = VOC other than crude oil or condensate
			Storage Capacity = Capacity is greater than 25,000 gallons but less than or equal to 40,000 gallons
			Control Device Type = Flare
T10A2611	40 CFR Part 60,	60K-1	Construction/Modification Date = After March 8, 1974 and on or before May 19, 1978
	Subpart K		Storage Capacity = Capacity is 40,000 gallons (151,416 liters) or less
T10A2611	40 CFR Part 63, Subpart G	63G-1A	MACT Subpart F/G Applicability = The unit is a Group 1 vessel (as defined in Table 5 for existing sources or Table 6 for new sources of 40 CFR 63, Subpart G).
			Closed Vent System = Closed vent system is routing emissions to a process or fuel gas system, or is subject to § 63.148 of Subpart G
			NESHAP Subpart Y Applicability = The unit is not subject to 40 CFR Part 61, Subpart Y.
			Hard Piping = The closed vent system is constructed of hard piping.
			Bypass Lines = Closed vent system has no by-pass lines.
			Maximum TVP = Maximum true vapor pressure of the total organic HAP in the liquid is less than 11.11 psi (76.6 kPa)
			Control Device Type = Flare
			Emission Control Type = Closed vent system (CVS) and control device (fixed roof)

Unit ID	Regulation	Index Number	Basis of Determination*
T10A2611	40 CFR Part 63, Subpart G	63G-1B	MACT Subpart F/G Applicability = The unit is a Group 1 vessel (as defined in Table 5 for existing sources or Table 6 for new sources of 40 CFR 63, Subpart G).
			Closed Vent System = Closed vent system is routing emissions to a process or fuel gas system, or is subject to § 63.148 of Subpart G
			NESHAP Subpart Y Applicability = The unit is not subject to 40 CFR Part 61, Subpart Y.
			Hard Piping = The closed vent system is constructed of hard piping.
			Bypass Lines = Closed vent system has no by-pass lines.
			Maximum TVP = Maximum true vapor pressure of the total organic HAP in the liquid is less than 11.11 psi (76.6 kPa)
			Control Device Type = Flare
			Emission Control Type = Closed vent system (CVS) and control device (fixed roof)
T10A2611	40 CFR Part 63, Subpart G	63G-2	MACT Subpart F/G Applicability = The unit is a Group 1 vessel (as defined in Table 5 for existing sources or Table 6 for new sources of 40 CFR 63, Subpart G).
			Closed Vent System = Closed vent system is routing emissions to a process or fuel gas system, or is subject to § 63.148 of Subpart G
			NESHAP Subpart Y Applicability = The unit is not subject to 40 CFR Part 61, Subpart Y.
			Hard Piping = The closed vent system is constructed of hard piping.
			Bypass Lines = Closed vent system has no by-pass lines.
			Maximum TVP = Maximum true vapor pressure of the total organic HAP in the liquid is less than 11.11 psi (76.6 kPa)
			Control Device Type = Flare
			Emission Control Type = Closed vent system (CVS) and control device (fixed roof)
T10A2612	30 TAC Chapter	R5112-1	Today's Date = Today's date is March 1, 2013 or later.
	115, Storage of VOCs		Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.
			Tank Description = Tank using a submerged fill pipe and vapor recovery system
			True Vapor Pressure = True vapor pressure is greater than or equal to 1.5 psia
			Product Stored = VOC other than crude oil or condensate
			Storage Capacity = Capacity is greater than 25,000 gallons but less than or equal to 40,000 gallons
			Control Device Type = Flare
T10A2612	40 CFR Part 60,	60K-1	Construction/Modification Date = After March 8, 1974 and on or before May 19, 1978
	Subpart K		Storage Capacity = Capacity is 40,000 gallons (151,416 liters) or less

Unit ID	Regulation	Index Number	Basis of Determination*
T10A2612	40 CFR Part 63, Subpart G	63G-1A	MACT Subpart F/G Applicability = The unit is a Group 1 vessel (as defined in Table 5 for existing sources or Table 6 for new sources of 40 CFR 63, Subpart G).
			Closed Vent System = Closed vent system is routing emissions to a process or fuel gas system, or is subject to § 63.148 of Subpart G
			NESHAP Subpart Y Applicability = The unit is not subject to 40 CFR Part 61, Subpart Y.
			Hard Piping = The closed vent system is constructed of hard piping.
			Bypass Lines = Closed vent system has no by-pass lines.
			Maximum TVP = Maximum true vapor pressure of the total organic HAP in the liquid is less than 11.11 psi (76.6 kPa)
			Control Device Type = Flare
			Emission Control Type = Closed vent system (CVS) and control device (fixed roof)
T10A2612	40 CFR Part 63, Subpart G	63G-1B	MACT Subpart F/G Applicability = The unit is a Group 1 vessel (as defined in Table 5 for existing sources or Table 6 for new sources of 40 CFR 63, Subpart G).
			Closed Vent System = Closed vent system is routing emissions to a process or fuel gas system, or is subject to § 63.148 of Subpart G
			NESHAP Subpart Y Applicability = The unit is not subject to 40 CFR Part 61, Subpart Y.
			Hard Piping = The closed vent system is constructed of hard piping.
			Bypass Lines = Closed vent system has no by-pass lines.
			Maximum TVP = Maximum true vapor pressure of the total organic HAP in the liquid is less than 11.11 psi (76.6 kPa)
			Control Device Type = Flare
			Emission Control Type = Closed vent system (CVS) and control device (fixed roof)
T10A2612	40 CFR Part 63, Subpart G	63G-2	MACT Subpart F/G Applicability = The unit is a Group 1 vessel (as defined in Table 5 for existing sources or Table 6 for new sources of 40 CFR 63, Subpart G).
			Closed Vent System = Closed vent system is routing emissions to a process or fuel gas system, or is subject to § 63.148 of Subpart G
			NESHAP Subpart Y Applicability = The unit is not subject to 40 CFR Part 61, Subpart Y.
			Hard Piping = The closed vent system is constructed of hard piping.
			Bypass Lines = Closed vent system has no by-pass lines.
			Maximum TVP = Maximum true vapor pressure of the total organic HAP in the liquid is less than 11.11 psi (76.6 kPa)
			Control Device Type = Flare
			Emission Control Type = Emissions routed to a fuel gas system
T10ACHT	30 TAC Chapter	R5112-1	Today's Date = Today's date is March 1, 2013 or later.
	115, Storage of VOCs		Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.
			Tank Description = Tank using a submerged fill pipe and vapor recovery system
			True Vapor Pressure = True vapor pressure is less than 1.0 psia
			Product Stored = VOC other than crude oil or condensate
			Storage Capacity = Capacity is greater than 1,000 gallons but less than or equal to 25,000 gallons

Unit ID	Regulation	Index Number	Basis of Determination*
T10ACHT	30 TAC Chapter 115, Storage of VOCs	Storage of	Today's Date = Today's date is March 1, 2013 or later.  Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.
			Tank Description = Tank using a submerged fill pipe and vapor recovery system
			True Vapor Pressure = True vapor pressure is greater than or equal to 1.5 psia
			Product Stored = VOC other than crude oil or condensate
			Storage Capacity = Capacity is greater than 1,000 gallons but less than or equal to 25,000 gallons
			Control Device Type = Flare
T10ACHT	40 CFR Part 60,	60K-1	Construction/Modification Date = After March 8, 1974 and on or before May 19, 1978
	Subpart K		Storage Capacity = Capacity is 40,000 gallons (151,416 liters) or less
T10ACMT	30 TAC Chapter	R5112-1	Today's Date = Today's date is March 1, 2013 or later.
	115, Storage of VOCs		Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.
			Tank Description = Tank using a submerged fill pipe and vapor recovery system
			True Vapor Pressure = True vapor pressure is less than 1.0 psia
			Product Stored = VOC other than crude oil or condensate
			Storage Capacity = Capacity is greater than 1,000 gallons but less than or equal to 25,000 gallons
T10ACMT	30 TAC Chapter 115, Storage of VOCs		Today's Date = Today's date is March 1, 2013 or later.
			Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.
			Tank Description = Tank using a submerged fill pipe and vapor recovery system
			True Vapor Pressure = True vapor pressure is greater than or equal to 1.5 psia
			Product Stored = VOC other than crude oil or condensate
			Storage Capacity = Capacity is greater than 1,000 gallons but less than or equal to 25,000 gallons
			Control Device Type = Flare
T10ACMT	40 CFR Part 60,	60K-1	Construction/Modification Date = After March 8, 1974 and on or before May 19, 1978
	Subpart K		Storage Capacity = Capacity is 40,000 gallons (151,416 liters) or less
T10K12CHT	30 TAC Chapter	R5112-1	Today's Date = Today's date is March 1, 2013 or later.
	115, Storage of VOCs	torage of	Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.
			Tank Description = Tank using a submerged fill pipe and vapor recovery system
			True Vapor Pressure = True vapor pressure is greater than or equal to 1.5 psia
			Product Stored = VOC other than crude oil or condensate
			Storage Capacity = Capacity is greater than 25,000 gallons but less than or equal to 40,000 gallons
			Control Device Type = Flare

Unit ID	Regulation	Index Number	Basis of Determination*
T10K12CMT 30	30 TAC Chapter	R5112-1	Today's Date = Today's date is March 1, 2013 or later.
	115, Storage of VOCs		Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.
			Tank Description = Tank using a submerged fill pipe and vapor recovery system
			True Vapor Pressure = True vapor pressure is greater than or equal to 1.5 psia
			Product Stored = VOC other than crude oil or condensate
			Storage Capacity = Capacity is greater than 25,000 gallons but less than or equal to 40,000 gallons
			Control Device Type = Flare
T10K12CMT	40 CFR Part 60,	60KB-1	Product Stored = Volatile organic liquid
	Subpart Kb		Storage Capacity = Capacity is greater than or equal to 19,800 gallons (75,000 liters) but less than 39,900 gallons (151,000 liters)
			Maximum True Vapor Pressure = True vapor pressure is greater than or equal to 2.2 psia but less than 4.0 psia
			Storage Vessel Description = Closed vent system (CVS) with a flare used as the control device (fixed roof)
T10K12CMT	40 CFR Part 60,	60KB-2	Product Stored = Volatile organic liquid
	Subpart Kb	: Kb	Storage Capacity = Capacity is greater than or equal to 19,800 gallons (75,000 liters) but less than 39,900 gallons (151,000 liters)
			Maximum True Vapor Pressure = True vapor pressure is greater than or equal to 2.2 psia but less than 4.0 psia
			Storage Vessel Description = CVS and control device other than a flare (fixed roof)
T10K2602B	30 TAC Chapter 115, Storage of VOCs	Storage of	Today's Date = Today's date is March 1, 2013 or later.
			Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.
			Tank Description = Tank using a submerged fill pipe and vapor recovery system
			True Vapor Pressure = True vapor pressure is less than 1.0 psia
			Product Stored = VOC other than crude oil or condensate
			Storage Capacity = Capacity is greater than 1,000 gallons but less than or equal to 25,000 gallons
T10K2602B	30 TAC Chapter	R5112-2	Today's Date = Today's date is March 1, 2013 or later.
	115, Storage of VOCs		Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.
			Tank Description = Tank using a submerged fill pipe and vapor recovery system
			True Vapor Pressure = True vapor pressure is greater than or equal to 1.5 psia
			Product Stored = VOC other than crude oil or condensate
			Storage Capacity = Capacity is greater than 1,000 gallons but less than or equal to 25,000 gallons
			Control Device Type = Flare
T10K2602B	40 CFR Part 60,	60K-1	Construction/Modification Date = After March 8, 1974 and on or before May 19, 1978
	Subpart K		Storage Capacity = Capacity is 40,000 gallons (151,416 liters) or less

Unit ID	Regulation	Index Number	Basis of Determination*
T10K2602B	40 CFR Part 63, Subpart G	63G-3A	MACT Subpart F/G Applicability = The unit is a Group 1 vessel (as defined in Table 5 for existing sources or Table 6 for new sources of 40 CFR 63, Subpart G).
			Closed Vent System = Closed vent system is routing emissions to a process or fuel gas system, or is subject to § 63.148 of Subpart G
			NESHAP Subpart Y Applicability = The unit is not subject to 40 CFR Part 61, Subpart Y.
			Hard Piping = The closed vent system is constructed of hard piping.
			Bypass Lines = Closed vent system has no by-pass lines.
			Maximum TVP = Maximum true vapor pressure of the total organic HAP in the liquid is less than 11.11 psi (76.6 kPa)
			Control Device Type = Flare
			Emission Control Type = Closed vent system (CVS) and control device (fixed roof)
T10K2602B	40 CFR Part 63, Subpart G	63G-3B	MACT Subpart F/G Applicability = The unit is a Group 1 vessel (as defined in Table 5 for existing sources or Table 6 for new sources of 40 CFR 63, Subpart G).
			Closed Vent System = Closed vent system is routing emissions to a process or fuel gas system, or is subject to § 63.148 of Subpart G
			NESHAP Subpart Y Applicability = The unit is not subject to 40 CFR Part 61, Subpart Y.
			Hard Piping = The closed vent system is constructed of hard piping.
			Bypass Lines = Closed vent system has no by-pass lines.
			Maximum TVP = Maximum true vapor pressure of the total organic HAP in the liquid is less than 11.11 psi (76.6 kPa)
			Control Device Type = Flare
			Emission Control Type = Closed vent system (CVS) and control device (fixed roof)
T10K2620	30 TAC Chapter	R5112-1	Today's Date = Today's date is March 1, 2013 or later.
	115, Storage of VOCs	age of	Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.
			Tank Description = Tank using a submerged fill pipe and vapor recovery system
			True Vapor Pressure = True vapor pressure is greater than or equal to 1.5 psia
			Product Stored = VOC other than crude oil or condensate
	Storage Capacity = Capacity is greater than 25,000 gallons but less than or ed	Storage Capacity = Capacity is greater than 25,000 gallons but less than or equal to 40,000 gallons	
			Control Device Type = Flare
T10K2620	40 CFR Part 63,	63FFFF-1	Designated HAL = The emission stream is not designated as halogenated.
	Subpart FFFF		Emission Standard = HAP vapor pressure is less than 76.6 and a flare is being used for control per § 63.2470(a)-Table 4.1.b.iii.
			Determined HAL = The emission stream is determined not to be halogenated.
			Prior Eval = The data from a prior evaluation or assessment is not being used.
			Assessment Waiver = The Administrator has not granted a waiver of compliance assessment or a waiver was not requested.
			Negative Pressure = The closed vent system is operated and maintained under negative pressure.

Unit ID	Regulation	Index Number	Basis of Determination*
T10K2621	30 TAC Chapter	R5112-1	Today's Date = Today's date is March 1, 2013 or later.
	115, Storage of VOCs		Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.
			Tank Description = Tank using a submerged fill pipe and vapor recovery system
			True Vapor Pressure = True vapor pressure is greater than or equal to 1.5 psia
			Product Stored = VOC other than crude oil or condensate
			Storage Capacity = Capacity is greater than 25,000 gallons but less than or equal to 40,000 gallons
			Control Device Type = Flare
T10K2622	30 TAC Chapter	R5112-1	Today's Date = Today's date is March 1, 2013 or later.
	115, Storage of VOCs		Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.
			Tank Description = Tank using a submerged fill pipe and vapor recovery system
			True Vapor Pressure = True vapor pressure is greater than or equal to 1.5 psia
			Product Stored = VOC other than crude oil or condensate
			Storage Capacity = Capacity is greater than 25,000 gallons but less than or equal to 40,000 gallons
			Control Device Type = Flare
T10K2630	30 TAC Chapter	R5112-1	Today's Date = Today's date is March 1, 2013 or later.
	115, Storage of VOCs		Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.
			Tank Description = Tank using a submerged fill pipe and vapor recovery system
			True Vapor Pressure = True vapor pressure is greater than or equal to 1.5 psia
			Product Stored = VOC other than crude oil or condensate
			Storage Capacity = Capacity is greater than 25,000 gallons but less than or equal to 40,000 gallons
			Control Device Type = Flare
T10K2631	30 TAC Chapter	R5112-1	Today's Date = Today's date is March 1, 2013 or later.
	115, Storage of VOCs		Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.
			Tank Description = Tank using a submerged fill pipe and vapor recovery system
			True Vapor Pressure = True vapor pressure is greater than or equal to 1.5 psia
			Product Stored = VOC other than crude oil or condensate
			Storage Capacity = Capacity is greater than 25,000 gallons but less than or equal to 40,000 gallons
			Control Device Type = Flare

Unit ID	Regulation	Index Number	Basis of Determination*
T10K2632A	30 TAC Chapter	R5112-1	Today's Date = Today's date is March 1, 2013 or later.
	115, Storage of VOCs		Tank Description = Tank using a submerged fill pipe and vapor recovery system
	VOCS		True Vapor Pressure = True vapor pressure is greater than or equal to 1.5 psia
			Product Stored = VOC other than crude oil or condensate
			Storage Capacity = Capacity is greater than 1,000 gallons but less than or equal to 25,000 gallons
			Control Device Type = Flare
T10K2632B	30 TAC Chapter	R5112-1	Today's Date = Today's date is March 1, 2013 or later.
	115, Storage of VOCs		Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.
			Tank Description = Tank using a submerged fill pipe and vapor recovery system
			True Vapor Pressure = True vapor pressure is greater than or equal to 1.5 psia
			Product Stored = VOC other than crude oil or condensate
			Storage Capacity = Capacity is greater than 1,000 gallons but less than or equal to 25,000 gallons
			Control Device Type = Flare
T10L2640	30 TAC Chapter	R5112-1	Today's Date = Today's date is March 1, 2013 or later.
	115, Storage of VOCs		Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.
			Tank Description = Tank using a submerged fill pipe and vapor recovery system
			True Vapor Pressure = True vapor pressure is less than 1.0 psia
			Product Stored = VOC other than crude oil or condensate
			Storage Capacity = Capacity is greater than 25,000 gallons but less than or equal to 40,000 gallons
T10L2641	30 TAC Chapter	R5112-1	Today's Date = Today's date is March 1, 2013 or later.
	115, Storage of VOCs		Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.
			Tank Description = Tank using a submerged fill pipe and vapor recovery system
			True Vapor Pressure = True vapor pressure is greater than or equal to 1.5 psia
			Product Stored = VOC other than crude oil or condensate
			Storage Capacity = Capacity is greater than 25,000 gallons but less than or equal to 40,000 gallons
			Control Device Type = Flare
T10L2642	30 TAC Chapter	R5112-1	Today's Date = Today's date is March 1, 2013 or later.
	115, Storage of VOCs	of	Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.
			Tank Description = Tank using a submerged fill pipe and vapor recovery system
			True Vapor Pressure = True vapor pressure is less than 1.0 psia
			Product Stored = VOC other than crude oil or condensate
			Storage Capacity = Capacity is greater than 25,000 gallons but less than or equal to 40,000 gallons

Unit ID	Regulation	Index Number	Basis of Determination*
T10L2643	30 TAC Chapter	R5112-1	Today's Date = Today's date is March 1, 2013 or later.
	115, Storage of VOCs		Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.
			Tank Description = Tank using a submerged fill pipe and vapor recovery system
			True Vapor Pressure = True vapor pressure is less than 1.0 psia
			Product Stored = VOC other than crude oil or condensate
			Storage Capacity = Capacity is greater than 25,000 gallons but less than or equal to 40,000 gallons
T10L2650	30 TAC Chapter	R5112-2	Today's Date = Today's date is March 1, 2013 or later.
	115, Storage of VOCs		Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.
			Tank Description = Tank using a submerged fill pipe and vapor recovery system
			True Vapor Pressure = True vapor pressure is less than 1.0 psia
			Product Stored = VOC other than crude oil or condensate
			Storage Capacity = Capacity is greater than 1,000 gallons but less than or equal to 25,000 gallons
T10L2651	30 TAC Chapter 115, Storage of VOCs	R5112-1	Today's Date = Today's date is March 1, 2013 or later.
		ge of	Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.
			Tank Description = Tank using a submerged fill pipe and vapor recovery system
			True Vapor Pressure = True vapor pressure is less than 1.0 psia
			Product Stored = VOC other than crude oil or condensate
			Storage Capacity = Capacity is greater than 25,000 gallons but less than or equal to 40,000 gallons
T10L2652	30 TAC Chapter		Today's Date = Today's date is March 1, 2013 or later.
	115, Storage of VOCs		Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.
			Tank Description = Tank using a submerged fill pipe and vapor recovery system
			True Vapor Pressure = True vapor pressure is less than 1.0 psia
			Product Stored = VOC other than crude oil or condensate
			Storage Capacity = Capacity is greater than 25,000 gallons but less than or equal to 40,000 gallons
T10L2653	30 TAC Chapter	R5112-1	Today's Date = Today's date is March 1, 2013 or later.
	115, Storage of VOCs	f	Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.
			Tank Description = Tank using a submerged fill pipe and vapor recovery system
			True Vapor Pressure = True vapor pressure is less than 1.0 psia
			Product Stored = VOC other than crude oil or condensate
			Storage Capacity = Capacity is greater than 25,000 gallons but less than or equal to 40,000 gallons

Unit ID	Regulation	Index Number	Basis of Determination*
T17BMEATK	30 TAC Chapter	R5112-1	Today's Date = Today's date is March 1, 2013 or later.
	115, Storage of VOCs		Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.
			Tank Description = Tank using a submerged fill pipe
			True Vapor Pressure = True vapor pressure is less than 1.0 psia
			Product Stored = VOC other than crude oil or condensate
			Storage Capacity = Capacity is greater than 1,000 gallons but less than or equal to 25,000 gallons
P10ICATLD	115, Loading	R5211-1	Chapter 115 Facility Type = Facility type other than a gasoline terminal, gasoline bulk plant, motor vehicle fuel dispensing facility or marine terminal.
	and Unloading of VOC		Alternate Control Requirement (ACR) = No alternate control requirements are being utilized.
			Product Transferred = Volatile organic compounds other than liquefied petroleum gas and gasoline.
			Transfer Type = Only loading.
			True Vapor Pressure = True vapor pressure less than 0.5 psia.
P10ICATLD	30 TAC Chapter	R5211-2	Chapter 115 Control Device Type = Vapor control system with a flare.
	115, Loading and Unloading of VOC		Chapter 115 Facility Type = Facility type other than a gasoline terminal, gasoline bulk plant, motor vehicle fuel dispensing facility or marine terminal.
	or voc		Alternate Control Requirement (ACR) = No alternate control requirements are being utilized.
			Vapor Tight = All liquid and vapor lines are equipped with fittings which make vapor-tight connections that close automatically when disconnected.
			Product Transferred = Volatile organic compounds other than liquefied petroleum gas and gasoline.
			Transfer Type = Only loading.
			True Vapor Pressure = True vapor pressure greater than or equal to 0.5 psia.
			Daily Throughput = Daily throughput not determined since 30 TAC § 115.217(a)(2)(A) or 30 TAC § 115.217(b)(3)(A) exemption is not utilized.
			Control Options = Vapor control system that maintains a control efficiency of at least 90%.
C09A032	30 TAC Chapter	R1111-1	Acid Gases Only = Flare is not used only as an acid gas flare as defined in 30 TAC § 101.1.
	111, Visible Emissions		Emergency/Upset Conditions Only = Flare is used under conditions other than emergency or upset conditions.
C09A032	40 CFR Part 60,	60A-1	Subject to 40 CFR § 60.18 = Flare is subject to 40 CFR § 60.18.
	Subpart A	part A	Adhering to Heat Content Specifications = Adhering to the heat content specifications in 40 CFR § 60.18(c)(3)(ii) and the maximum tip velocity specifications in 40 CFR § 60.18(c)(4).
			Flare Assist Type = Steam-assisted
			Flare Exit Velocity = Flare exit velocity is greater than or equal to 60 ft/s (18.3 m/sec) but less than 400 ft/s (122 m/sec).
			Heating Value of Gas = Heating value is greater than 1000 Btu/scf (37.3 MJ/scm)
F09A001	30 TAC Chapter 115, HRVOC Fugitive Emissions	R5780-ALL	SOP Index No. = Owner/Operator assumes HRVOC fugitive control requirements for all components subject to 30 TAC Chapter 115, Subchapter H, Division 3 with no alternate control or control device.

Unit ID	Regulation	Index Number	Basis of Determination*
F09A001	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	R5352-ALL	SOP/GOP Index No. = Owner/Operator assumes VOC fugitive control requirements for all components subject to 30 TAC Chapter 115, Subchapter D, Division 3 with no alternate control or control device.
F10A-01	30 TAC Chapter 115, HRVOC Fugitive Emissions	R5780-ALL	SOP Index No. = Owner/Operator assumes HRVOC fugitive control requirements for all components subject to 30 TAC Chapter 115, Subchapter H, Division 3 with no alternate control or control device.
F10A-01	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	R5352-ALL	SOP/GOP Index No. = Owner/Operator assumes VOC fugitive control requirements for all components subject to 30 TAC Chapter 115, Subchapter D, Division 3 with no alternate control or control device.
F10A-01	40 CFR Part 61, Subpart J	61J-1	40 CFR 61 (NESHAP) SUBPART J DESIGN CAPACITY = SITE IS DESIGNED TO PRODUCE OR USE MORE THAN 1,000 MEGAGRAMS OF BENZENE PER YEAR  ANY COMPONENT IN BENZENE SERVICE [NESHAP J] = THE FACILITY CONTAINS NO COMPONENT(S) IN BENZENE SERVICE  40 CFR 61 (NESHAP) SUBPART J ALTERNATE MEANS OF EMISSION LIMITATION (AMEL) = NOT USING ALTERNATE MEANS OF EMISSION LIMITATION.
F10A-01	40 CFR Part 61, Subpart V	61V-1	Vacuum Service = The fugitive unit does not contain components in vacuum service.  VHAP Service = The fugitive unit contains no components in VHAP service.
F10A-01	40 CFR Part 63, Subpart H	63H-ALL	SOP Index No. = Owner/Operator assumes fugitive control requirements for all components in VOC or VHAP service subject to 40 CFR Part 63, Subpart H with no alternated control or control device.  ANY (CLOSED VENT SYSTEMS) = COMPONENT PRESENT  BYPASS LINES = FUGITIVE UNIT WITH A CLOSED-VENT SYSTEM DOES NOT CONTAIN A BY-PASS LINE THAT COULD DIVERT A VENT STREAM AWAY FROM THE CONTROL DEVICE AND TO THE ATMOSPHERE  RECOVERY OR RECAPTURE DEVICES (CLOSED VENT SYSTEMS) = COMPONENT NOT PRESENT  UNSAFE TO INSPECT = FOR A FUGITIVE UNIT THAT CONTAINS ANY CLOSED-VENT SYSTEM, THERE ARE NO PARTS DESIGNATED AS UNSAFE TO INSPECT  DIFFICULT TO INSPECT = FUGITIVE UNIT CONTAINS ANY CLOSED-VENT SYSTEM WITH PARTS DESIGNATED AS DIFFICULT TO INSPECT  EMPLOYEE NUMBER = THE CORPORATION EMPLOYS 100 OR MORE PERSONS  ENCLOSED COMBUSTION DEVICES (CLOSED VENT SYSTEMS) = COMPONENT NOT PRESENT  FLARES (CLOSED VENT SYSTEMS) = COMPONENT PRESENT
F10AC5001	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	R5352-ALL	SOP/GOP Index No. = Owner/Operator assumes VOC fugitive control requirements for all components subject to 30 TAC Chapter 115, Subchapter D, Division 3 with no alternate control or control device.
F10C005	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	R5352-ALL	SOP/GOP Index No. = Owner/Operator assumes VOC fugitive control requirements for all components subject to 30 TAC Chapter 115, Subchapter D, Division 3 with no alternate control or control device.

Unit ID	Regulation	Index Number	Basis of Determination*
F10K001	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	R5352-ALL	SOP/GOP Index No. = Owner/Operator assumes VOC fugitive control requirements for all components subject to 30 TAC Chapter 115, Subchapter D, Division 3 with no alternate control or control device.
F10K001	40 CFR Part 60, Subpart VV	60VV-ALL	SOP Index No. = Owner or operator assumes fugitive unit control requirements for all components in VOC service subject to 40 CFR Part 60, Subpart VV with no alternate control or control devices.  Enclosed Combustion Device = The fugitive unit does not contain enclosed combustion devices.  Flare = The fugitive unit contains flares.  Vapor Recovery System = The fugitive unit contains vapor recovery systems.  Equivalent Emission Limitation = No equivalent emission limitation is used for vapor recovery systems.
F10K001	40 CFR Part 61, Subpart J	61J-1	Complying with 40 CFR § 60.482-10 = Vapor recovery systems are complying with § 60.482-10.  40 CFR 61 (NESHAP) SUBPART J DESIGN CAPACITY = SITE IS DESIGNED TO PRODUCE OR USE MORE THAN 1,000 MEGAGRAMS OF BENZENE PER YEAR  ANY COMPONENT IN BENZENE SERVICE [NESHAP J] = THE FACILITY CONTAINS NO COMPONENT(S) IN BENZENE SERVICE
F10K001	40 CFR Part 61, Subpart V	61V-1	Vacuum Service = The fugitive unit does not contain components in vacuum service.  VHAP Service = The fugitive unit contains no components in VHAP service.
F10K001	40 CFR Part 63, Subpart H	63H-ALL	SOP Index No. = Owner/Operator assumes fugitive control requirements for all components in VOC or VHAP service subject to 40 CFR Part 63, Subpart H with no alternated control or control device.
F02BCT04	40 CFR Part 63, Subpart Q	63Q-1	Used Compounds Containing Chromium on or After September 8, 1994 = The industrial process cooling tower has not used compounds containing chromium on or after September 8, 1994.
C09A032	30 TAC Chapter 115, Vent Gas Controls	R5121-1	Alternate Control Requirement = Alternate control is not used.  Chapter 115 Division = The vent stream does not originate from a source for which another Division in 30 TAC Chapter 115 establishes a control requirement, emission specification, or exemption for that source.  Total Design Capacity = Total design capacity is greater than or equal to 1,100 tons per year for all chemicals produced within that unit.  Combustion Exhaust = The vent stream is not from a combustion unit exhaust or the combustion unit is used as a control device for a vent stream originating from a noncombustion source subject to 30 TAC Chapter 115, Subchapter B, Division 2.  Flow Rate or VOC Concentration = Flow rate is greater than or equal to 0.011 scm/min or the VOC concentration is greater than or equal to 500 ppmv.  40 CFR 60 Subpart NNN Requirements = The distillation unit vent gas stream satisfies neither of the following requirements of 40 CFR Part 60, Subpart NNN: TRE index value is greater than 8.0; or TRE index value is greater than 1.0 without the use of VOC emission control devices.  Control Device Type = Smokeless flare  Vent Type = Vent gas stream originates from a synthetic organic chemical manufacturing industry reactor process or distillation operation, as defined in 30 TAC § 115.10.  40 CFR 60 Subpart RRR Requirements = The reactor process vent gas stream satisfies neither of the following requirements of 40 CFR 720 CFR 72

Unit ID	Regulation	Index Number	Basis of Determination*
E10COINC	30 TAC Chapter 111, Visible Emissions	R1111-1	Alternate Opacity Limitation = Not complying with an alternate opacity limit under 30 TAC § 111.113.  Vent Source = The source of the vent is not a steam generator fired by solid fossil fuel, oil or a mixture of oil and gas and is not a catalyst regenerator for a fluid bed catalytic cracking unit.
			Opacity Monitoring System = Optical instrument capable of measuring the opacity of emissions is not installed in the vent or optical instrumentation does not meet the requirements of $\S 111.111(a)(1)(D)$ , or the vent stream does not qualify for the exemption in $\S 111.111(a)(3)$ .
			Construction Date = After January 31, 1972
			Effluent Flow Rate = Effluent flow rate is less than 100,000 actual cubic feet per minute.
F10C5SOCL	30 TAC Chapter	R5121-1A	Alternate Control Requirement = Alternate control is not used.
	115, Vent Gas Controls		Chapter 115 Division = The vent stream does not originate from a source for which another Division in 30 TAC Chapter 115 establishes a control requirement, emission specification, or exemption for that source.
			Total Design Capacity = Total design capacity is greater than or equal to 1,100 tons per year for all chemicals produced within that unit.
			Combustion Exhaust = The vent stream is not from a combustion unit exhaust or the combustion unit is used as a control device for a vent stream originating from a noncombustion source subject to 30 TAC Chapter 115, Subchapter B, Division 2.
			Flow Rate or VOC Concentration = Flow rate is greater than or equal to 0.011 scm/min or the VOC concentration is greater than or equal to 500 ppmv.
		CFR Part 60,	40 CFR 60 Subpart NNN Requirements = The distillation unit vent gas stream satisfies neither of the following requirements of 40 CFR Part 60, Subpart NNN: TRE index value is greater than 8.0; or TRE index value is greater than 1.0 without the use of VOC emission control devices.
			Control Device Type = Smokeless flare
			Vent Type = Vent gas stream originates from a synthetic organic chemical manufacturing industry reactor process or distillation operation, as defined in 30 TAC § 115.10.
			40 CFR 60 Subpart RRR Requirements = The reactor process vent gas stream satisfies neither of the following requirements of 40 CFR Part 60, Subpart RRR: TRE index value is greater than 8.0; or TRE index value is greater than 1.0 without the use of VOC emission control devices.

Unit ID	Regulation	Index Number	Basis of Determination*
F10C5SOCL	30 TAC Chapter	R5121-1B	Alternate Control Requirement = Alternate control is not used.
	115, Vent Gas Controls		Chapter 115 Division = The vent stream does not originate from a source for which another Division in 30 TAC Chapter 115 establishes a control requirement, emission specification, or exemption for that source.
			Total Design Capacity = Total design capacity is greater than or equal to 1,100 tons per year for all chemicals produced within that unit.
			Combustion Exhaust = The vent stream is not from a combustion unit exhaust or the combustion unit is used as a control device for a vent stream originating from a noncombustion source subject to 30 TAC Chapter 115, Subchapter B, Division 2.
			Flow Rate or VOC Concentration = Flow rate is greater than or equal to 0.011 scm/min or the VOC concentration is greater than or equal to 500 ppmv.
			40 CFR 60 Subpart NNN Requirements = The distillation unit vent gas stream satisfies neither of the following requirements of 40 CFR Part 60, Subpart NNN: TRE index value is greater than 8.0; or TRE index value is greater than 1.0 without the use of VOC emission control devices.
			Control Device Type = Smokeless flare
			Vent Type = Vent gas stream originates from a synthetic organic chemical manufacturing industry reactor process or distillation operation, as defined in 30 TAC § 115.10.
			40 CFR 60 Subpart RRR Requirements = The reactor process vent gas stream satisfies neither of the following requirements of 40 CFR Part 60, Subpart RRR: TRE index value is greater than 8.0; or TRE index value is greater than 1.0 without the use of VOC emission control devices.
F10C5SOCL	40 CFR Part 63, Subpart G	63G-1	Alternate Monitoring Parameters = The EPA Administrator has not approved alternate monitoring parameters or alternate monitoring parameters are not used.
			Control Device = Flare
			Overlap = Title 40 CFR Part 60, Subpart NNN
			Group $1 =$ The process vent meets the definition of a Group $1$ process vent.
			Continuous Monitoring = Complying with the continuous monitoring requirements of 40 CFR §§ 63.114, 63.117, and 63.118.
			Halogenated = Vent stream is not halogenated.
			By-pass Lines = The vent system does not contain by-pass lines that can divert the vent stream from the control device.
P10AFLASH	30 TAC Chapter	R5727-1	HRVOC Concentration = The vent gas stream has a HRVOC concentration of at least 100 ppmv at some times.
	115, HRVOC Vent Gas		Max Flow Rate = The vent gas stream has a maximum potential flow rate greater than 100 dry standard cubic feet per hour (ft3/hr).
			Vent Gas Stream Control = Vent gas stream is controlled by a flare.

Unit ID	Regulation	Index Number	Basis of Determination*
P10AFLASH	30 TAC Chapter	R5121-1	Alternate Control Requirement = Alternate control is not used.
	115, Vent Gas Controls		Chapter 115 Division = The vent stream does not originate from a source for which another Division in 30 TAC Chapter 115 establishes a control requirement, emission specification, or exemption for that source.
			Total Design Capacity = Total design capacity is greater than or equal to 1,100 tons per year for all chemicals produced within that unit.
			Combustion Exhaust = The vent stream is not from a combustion unit exhaust or the combustion unit is used as a control device for a vent stream originating from a noncombustion source subject to 30 TAC Chapter 115, Subchapter B, Division 2.
			Flow Rate or VOC Concentration = Flow rate is greater than or equal to 0.011 scm/min or the VOC concentration is greater than or equal to 500 ppmv.
			40 CFR 60 Subpart NNN Requirements = The distillation unit vent gas stream satisfies neither of the following requirements of 40 CFR Part 60, Subpart NNN: TRE index value is greater than 8.0; or TRE index value is greater than 1.0 without the use of VOC emission control devices.
			Control Device Type = Smokeless flare
			Vent Type = Vent gas stream originates from a synthetic organic chemical manufacturing industry reactor process or distillation operation, as defined in 30 TAC § 115.10.
			40 CFR 60 Subpart RRR Requirements = The reactor process vent gas stream satisfies neither of the following requirements of 40 CFR Part 60, Subpart RRR: TRE index value is greater than 8.0; or TRE index value is greater than 1.0 without the use of VOC emission control devices.
P10AFLASH	30 TAC Chapter 115, Vent Gas Controls	Vent Gas	Alternate Control Requirement = Alternate control is not used.
			Chapter 115 Division = The vent stream does not originate from a source for which another Division in 30 TAC Chapter 115 establishes a control requirement, emission specification, or exemption for that source.
			Total Design Capacity = Total design capacity is greater than or equal to 1,100 tons per year for all chemicals produced within that unit.
			Combustion Exhaust = The vent stream is not from a combustion unit exhaust or the combustion unit is used as a control device for a vent stream originating from a noncombustion source subject to 30 TAC Chapter 115, Subchapter B, Division 2.
			Flow Rate or VOC Concentration = Flow rate is greater than or equal to 0.011 scm/min or the VOC concentration is greater than or equal to 500 ppmv.
			40 CFR 60 Subpart NNN Requirements = The distillation unit vent gas stream satisfies neither of the following requirements of 40 CFR Part 60, Subpart NNN: TRE index value is greater than 8.0; or TRE index value is greater than 1.0 without the use of VOC emission control devices.
			Control Device Type = Vapor combustor not considered to be a flare.
			Vent Type = Vent gas stream originates from a synthetic organic chemical manufacturing industry reactor process or distillation operation, as defined in 30 TAC § 115.10.
			40 CFR 60 Subpart RRR Requirements = The reactor process vent gas stream satisfies neither of the following requirements of 40 CFR Part 60, Subpart RRR: TRE index value is greater than 8.0; or TRE index value is greater than 1.0 without the use of VOC emission control devices.
P10AY106	40 CFR Part 63,	63G-1	Control Device = Flare
	Subpart G		Overlap = Title 40 CFR Part 63, Subpart G only
			Group $1 =$ The process vent meets the definition of a Group $1$ process vent.
			Halogenated = Vent stream is not halogenated.
			By-pass Lines = The vent system does not contain by-pass lines that can divert the vent stream from the control device.

Unit ID	Regulation	Index Number	Basis of Determination*
P10C5STAB	30 TAC Chapter	R5121-1	Alternate Control Requirement = Alternate control is not used.
	115, Vent Gas Controls		Chapter 115 Division = The vent stream does not originate from a source for which another Division in 30 TAC Chapter 115 establishes a control requirement, emission specification, or exemption for that source.
			Total Design Capacity = Total design capacity is greater than or equal to 1,100 tons per year for all chemicals produced within that unit.
			Combustion Exhaust = The vent stream is not from a combustion unit exhaust or the combustion unit is used as a control device for a vent stream originating from a noncombustion source subject to 30 TAC Chapter 115, Subchapter B, Division 2.
			Flow Rate or VOC Concentration = Flow rate is greater than or equal to 0.011 scm/min or the VOC concentration is greater than or equal to 500 ppmv.
			40 CFR 60 Subpart NNN Requirements = The distillation unit vent gas stream satisfies neither of the following requirements of 40 CFR Part 60, Subpart NNN: TRE index value is greater than 8.0; or TRE index value is greater than 1.0 without the use of VOC emission control devices.
			Control Device Type = Smokeless flare
			Vent Type = Vent gas stream originates from a synthetic organic chemical manufacturing industry reactor process or distillation operation, as defined in 30 TAC § 115.10.
			40 CFR 60 Subpart RRR Requirements = The reactor process vent gas stream satisfies neither of the following requirements of 40 CFR Part 60, Subpart RRR: TRE index value is greater than 8.0; or TRE index value is greater than 1.0 without the use of VOC emission control devices.
P10C5VAP	30 TAC Chapter 115, Vent Gas Controls	R5121-1	Alternate Control Requirement = Alternate control is not used.
			Chapter 115 Division = The vent stream does not originate from a source for which another Division in 30 TAC Chapter 115 establishes a control requirement, emission specification, or exemption for that source.
			Total Design Capacity = Total design capacity is greater than or equal to 1,100 tons per year for all chemicals produced within that unit.
			Combustion Exhaust = The vent stream is not from a combustion unit exhaust or the combustion unit is used as a control device for a vent stream originating from a noncombustion source subject to 30 TAC Chapter 115, Subchapter B, Division 2.
			Flow Rate or VOC Concentration = Flow rate is greater than or equal to 0.011 scm/min or the VOC concentration is greater than or equal to 500 ppmv.
			40 CFR 60 Subpart NNN Requirements = The distillation unit vent gas stream satisfies neither of the following requirements of 40 CFR Part 60, Subpart NNN: TRE index value is greater than 8.0; or TRE index value is greater than 1.0 without the use of VOC emission control devices.
			Control Device Type = Smokeless flare
			Vent Type = Vent gas stream originates from a synthetic organic chemical manufacturing industry reactor process or distillation operation, as defined in 30 TAC § 115.10.
			40 CFR 60 Subpart RRR Requirements = The reactor process vent gas stream satisfies neither of the following requirements of 40 CFR Part 60, Subpart RRR: TRE index value is greater than 8.0; or TRE index value is greater than 1.0 without the use of VOC emission control devices.
P10E2036	40 CFR Part 63,	63G-1	Control Device = Flare
	Subpart G		Overlap = Title 40 CFR Part 63, Subpart G only
			Group $1 =$ The process vent meets the definition of a Group 1 process vent.
			Halogenated = Vent stream is not halogenated.
			By-pass Lines = The vent system does not contain by-pass lines that can divert the vent stream from the control device.

Unit ID	Regulation	Index Number	Basis of Determination*
P10IC2011	40 CFR Part 63, Subpart G	63G-1	Alternate Monitoring Parameters = The EPA Administrator has not approved alternate monitoring parameters or alternate monitoring parameters are not used.
			Control Device = Flare
			Overlap = Title 40 CFR Part 60, Subpart RRR
			Group $1 =$ The process vent meets the definition of a Group $1$ process vent.
			Continuous Monitoring = Complying with the continuous monitoring requirements of 40 CFR §§ 63.114, 63.117, and 63.118.
			Halogenated = Vent stream is not halogenated.
			By-pass Lines = The vent system does not contain by-pass lines that can divert the vent stream from the control device.
P10IC2022	40 CFR Part 63,	63G-1	Control Device = Flare
	Subpart G		Overlap = Title 40 CFR Part 63, Subpart G only
			Group $1 =$ The process vent meets the definition of a Group $1$ process vent.
			Halogenated = Vent stream is not halogenated.
			By-pass Lines = The vent system does not contain by-pass lines that can divert the vent stream from the control device.
T10ACHT	30 TAC Chapter 115, Vent Gas Controls	R5121-1	Alternate Control Requirement = Alternate control is not used.
			Chapter 115 Division = The vent stream does not originate from a source for which another Division in 30 TAC Chapter 115 establishes a control requirement, emission specification, or exemption for that source.
			Total Design Capacity = Total design capacity is greater than or equal to 1,100 tons per year for all chemicals produced within that unit.
			Combustion Exhaust = The vent stream is not from a combustion unit exhaust or the combustion unit is used as a control device for a vent stream originating from a noncombustion source subject to 30 TAC Chapter 115, Subchapter B, Division 2.
			Flow Rate or VOC Concentration = Flow rate is greater than or equal to 0.011 scm/min or the VOC concentration is greater than or equal to 500 ppmv.
			40 CFR 60 Subpart NNN Requirements = The distillation unit vent gas stream satisfies neither of the following requirements of 40 CFR Part 60, Subpart NNN: TRE index value is greater than 8.0; or TRE index value is greater than 1.0 without the use of VOC emission control devices.
			Control Device Type = Smokeless flare
			Vent Type = Vent gas stream originates from a synthetic organic chemical manufacturing industry reactor process or distillation operation, as defined in 30 TAC § 115.10.
			40 CFR 60 Subpart RRR Requirements = The reactor process vent gas stream satisfies neither of the following requirements of 40 CFR Part 60, Subpart RRR: TRE index value is greater than 8.0; or TRE index value is greater than 1.0 without the use of VOC emission control devices.

Unit ID	Regulation	Index Number	Basis of Determination*
T10ACMT	30 TAC Chapter 115, Vent Gas Controls	R5121-1	Alternate Control Requirement = Alternate control is not used.
			Chapter 115 Division = The vent stream does not originate from a source for which another Division in 30 TAC Chapter 115 establishes a control requirement, emission specification, or exemption for that source.
			Total Design Capacity = Total design capacity is greater than or equal to 1,100 tons per year for all chemicals produced within that unit.
			Combustion Exhaust = The vent stream is not from a combustion unit exhaust or the combustion unit is used as a control device for a vent stream originating from a noncombustion source subject to 30 TAC Chapter 115, Subchapter B, Division 2.
			Flow Rate or VOC Concentration = Flow rate is greater than or equal to 0.011 scm/min or the VOC concentration is greater than or equal to 500 ppmv.
			40 CFR 60 Subpart NNN Requirements = The distillation unit vent gas stream satisfies neither of the following requirements of 40 CFR Part 60, Subpart NNN: TRE index value is greater than 8.0; or TRE index value is greater than 1.0 without the use of VOC emission control devices.
			Control Device Type = Smokeless flare
			Vent Type = Vent gas stream originates from a synthetic organic chemical manufacturing industry reactor process or distillation operation, as defined in 30 TAC § 115.10.
			40 CFR 60 Subpart RRR Requirements = The reactor process vent gas stream satisfies neither of the following requirements of 40 CFR Part 60, Subpart RRR: TRE index value is greater than 8.0; or TRE index value is greater than 1.0 without the use of VOC emission control devices.
T10K12CHT	30 TAC Chapter 115, Vent Gas Controls	R5121-1	Alternate Control Requirement = Alternate control is not used.
			Chapter 115 Division = The vent stream does not originate from a source for which another Division in 30 TAC Chapter 115 establishes a control requirement, emission specification, or exemption for that source.
			Total Design Capacity = Total design capacity is greater than or equal to 1,100 tons per year for all chemicals produced within that unit.
			Combustion Exhaust = The vent stream is not from a combustion unit exhaust or the combustion unit is used as a control device for a vent stream originating from a noncombustion source subject to 30 TAC Chapter 115, Subchapter B, Division 2.
			Flow Rate or VOC Concentration = Flow rate is greater than or equal to 0.011 scm/min or the VOC concentration is greater than or equal to 500 ppmv.
			40 CFR 60 Subpart NNN Requirements = The distillation unit vent gas stream satisfies neither of the following requirements of 40 CFR Part 60, Subpart NNN: TRE index value is greater than 8.0; or TRE index value is greater than 1.0 without the use of VOC emission control devices.
			Control Device Type = Smokeless flare
			Vent Type = Vent gas stream originates from a synthetic organic chemical manufacturing industry reactor process or distillation operation, as defined in 30 TAC § 115.10.
			40 CFR 60 Subpart RRR Requirements = The reactor process vent gas stream satisfies neither of the following requirements of 40 CFR Part 60, Subpart RRR: TRE index value is greater than 8.0; or TRE index value is greater than 1.0 without the use of VOC emission control devices.

Unit ID	Regulation	Index Number	Basis of Determination*
T10K12CHT	40 CFR Part 63, Subpart G		Alternate Monitoring Parameters = The EPA Administrator has not approved alternate monitoring parameters or alternate monitoring parameters are not used.
			Control Device = Flare
			Overlap = Title 40 CFR Part 63, Subpart G only
			Group $1 =$ The process vent meets the definition of a Group $1$ process vent.
			Continuous Monitoring = Complying with the continuous monitoring requirements of 40 CFR §§ 63.114, 63.117, and 63.118.
			Halogenated = Vent stream is not halogenated.
			By-pass Lines = The vent system does not contain by-pass lines that can divert the vent stream from the control device.
T10K12CMT	30 TAC Chapter	R5121-1	Alternate Control Requirement = Alternate control is not used.
	115, Vent Gas Controls		Chapter 115 Division = The vent stream does not originate from a source for which another Division in 30 TAC Chapter 115 establishes a control requirement, emission specification, or exemption for that source.
			Total Design Capacity = Total design capacity is greater than or equal to 1,100 tons per year for all chemicals produced within that unit.
			Combustion Exhaust = The vent stream is not from a combustion unit exhaust or the combustion unit is used as a control device for a vent stream originating from a noncombustion source subject to 30 TAC Chapter 115, Subchapter B, Division 2.
			Flow Rate or VOC Concentration = Flow rate is greater than or equal to 0.011 scm/min or the VOC concentration is greater than or equal to 500 ppmv.
			40 CFR 60 Subpart NNN Requirements = The distillation unit vent gas stream satisfies neither of the following requirements of 40 CFR Part 60, Subpart NNN: TRE index value is greater than 8.0; or TRE index value is greater than 1.0 without the use of VOC emission control devices.
			Control Device Type = Smokeless flare
			Vent Type = Vent gas stream originates from a synthetic organic chemical manufacturing industry reactor process or distillation operation, as defined in 30 TAC § 115.10.
			40 CFR 60 Subpart RRR Requirements = The reactor process vent gas stream satisfies neither of the following requirements of 40 CFR Part 60, Subpart RRR: TRE index value is greater than 8.0; or TRE index value is greater than 1.0 without the use of VOC emission control devices.
T10K12CMT	40 CFR Part 63, Subpart G	63G-1	Alternate Monitoring Parameters = The EPA Administrator has not approved alternate monitoring parameters or alternate monitoring parameters are not used.
			Control Device = Flare
			Overlap = Title 40 CFR Part 63, Subpart G only
			Group $1$ = The process vent meets the definition of a Group $1$ process vent.
			Continuous Monitoring = Complying with the continuous monitoring requirements of 40 CFR §§ 63.114, 63.117, and 63.118.
			Halogenated = Vent stream is not halogenated.
			By-pass Lines = The vent system does not contain by-pass lines that can divert the vent stream from the control device.

Unit ID	Regulation	Index Number	Basis of Determination*
T33F05	30 TAC Chapter	R5121-1	Alternate Control Requirement = Alternate control is not used.
	115, Vent Gas Controls		Chapter 115 Division = The vent stream does not originate from a source for which another Division in 30 TAC Chapter 115 establishes a control requirement, emission specification, or exemption for that source.
			Combustion Exhaust = The vent stream is not from a combustion unit exhaust or the combustion unit is used as a control device for a vent stream originating from a noncombustion source subject to 30 TAC Chapter 115, Subchapter B, Division 2.
			Control Device Type = Smokeless flare
			Vent Type = Title 30 TAC Chapter 115, Subchapter B, Vent Gas Control rules are applicable and the vent is not specifically classified under the rule.
T33F06	30 TAC Chapter	R5121-1	Alternate Control Requirement = Alternate control is not used.
	115, Vent Gas Controls		Chapter 115 Division = The vent stream does not originate from a source for which another Division in 30 TAC Chapter 115 establishes a control requirement, emission specification, or exemption for that source.
			Combustion Exhaust = The vent stream is not from a combustion unit exhaust or the combustion unit is used as a control device for a vent stream originating from a noncombustion source subject to 30 TAC Chapter 115, Subchapter B, Division 2.
			Control Device Type = Smokeless flare
			Vent Type = Title 30 TAC Chapter 115, Subchapter B, Vent Gas Control rules are applicable and the vent is not specifically classified under the rule.
Т33Н26	30 TAC Chapter 115, Vent Gas Controls	R5121-1	Alternate Control Requirement = Alternate control is not used.
			Chapter 115 Division = The vent stream does not originate from a source for which another Division in 30 TAC Chapter 115 establishes a control requirement, emission specification, or exemption for that source.
			Combustion Exhaust = The vent stream is not from a combustion unit exhaust or the combustion unit is used as a control device for a vent stream originating from a noncombustion source subject to 30 TAC Chapter 115, Subchapter B, Division 2.
			Control Device Type = Smokeless flare
			Vent Type = Title 30 TAC Chapter 115, Subchapter B, Vent Gas Control rules are applicable and the vent is not specifically classified under the rule.
T33H27	30 TAC Chapter	R5121-1	Alternate Control Requirement = Alternate control is not used.
	115, Vent Gas Controls		Chapter 115 Division = The vent stream does not originate from a source for which another Division in 30 TAC Chapter 115 establishes a control requirement, emission specification, or exemption for that source.
			Combustion Exhaust = The vent stream is not from a combustion unit exhaust or the combustion unit is used as a control device for a vent stream originating from a noncombustion source subject to 30 TAC Chapter 115, Subchapter B, Division 2.
			Control Device Type = Smokeless flare
			Vent Type = Title 30 TAC Chapter 115, Subchapter B, Vent Gas Control rules are applicable and the vent is not specifically classified under the rule.

Unit ID	Regulation	Index Number	Basis of Determination*
F10C5SOCL	40 CFR Part 60, Subpart NNN	60NNN-1A	Subpart NNN Chemicals = The distillation unit produces any chemical listed in 40 CFR § 60.667 as a product, co-product, by-product, or intermediate.
			Total Resource Effectiveness = TRE index value greater than 8.0 not from a halogenated vent stream.
			Construction/Modification Date = After December 30, 1983.
			Subpart NNN Control Device = Flare.
			Vent Type = A single distillation unit discharging vent stream into a vapor recovery system.
			Distillation Unit Type = Does not qualify for any exemption under $\S$ 60.660(c)(1)-(3).
			Total Design Capacity = 1 gigagram per year or greater.
			Vent Stream Flow Rate = Flow rate greater than or equal to 0.008 scm/min.
F10C5SOCL	40 CFR Part 60, Subpart NNN	60NNN-1B	Subpart NNN Chemicals = The distillation unit produces any chemical listed in 40 CFR § 60.667 as a product, co-product, by-product, or intermediate.
			Total Resource Effectiveness = TRE index value greater than 8.0 not from a halogenated vent stream.
			Construction/Modification Date = After December 30, 1983.
			Subpart NNN Control Device = Flare.
			Vent Type = A single distillation unit discharging vent stream into a vapor recovery system.
			Distillation Unit Type = Does not qualify for any exemption under § 60.660(c)(1)-(3).
			Total Design Capacity = 1 gigagram per year or greater.
			Vent Stream Flow Rate = Flow rate greater than or equal to 0.008 scm/min.
P10ASTRIP	40 CFR Part 60, Subpart NNN	60NNN-1	Subpart NNN Chemicals = The distillation unit produces any chemical listed in 40 CFR § 60.667 as a product, co-product, by-product, or intermediate.
			Construction/Modification Date = On or before December 30, 1983.
P10ASTRIP	40 CFR Part 60, Subpart NNN	60NNN-2	Subpart NNN Chemicals = The distillation unit does not produce any chemical listed in 40 CFR § 60.667 as a product, co-product, by-product, or intermediate.
			Construction/Modification Date = On or before December 30, 1983.
P10E2036	40 CFR Part 60, Subpart NNN	60NNN-1	Subpart NNN Chemicals = The distillation unit produces any chemical listed in 40 CFR § 60.667 as a product, co-product, by-product, or intermediate.
			Construction/Modification Date = After December 30, 1983.
			Vent Type = Vent is not regulated by Subpart NNN.

Unit ID	Regulation	Index Number	Basis of Determination*
P10K100	40 CFR Part 60, Subpart NNN		Subpart NNN Chemicals = The distillation unit produces any chemical listed in 40 CFR § 60.667 as a product, co-product, by-product, or intermediate.
			Total Resource Effectiveness = TRE index value greater than 8.0 not from a halogenated vent stream.
			Construction/Modification Date = After December 30, 1983.
			Subpart NNN Control Device = Flare.
			Vent Type = A single distillation unit discharging vent stream into a vapor recovery system.
			Distillation Unit Type = Does not qualify for any exemption under $\S$ 60.660(c)(1)-(3).
			Total Design Capacity = 1 gigagram per year or greater.
			Vent Stream Flow Rate = Flow rate greater than or equal to 0.008 scm/min.
P10K100	40 CFR Part 60, Subpart NNN	60NNN-1B	Subpart NNN Chemicals = The distillation unit produces any chemical listed in 40 CFR § 60.667 as a product, co-product, by-product, or intermediate.
			Total Resource Effectiveness = TRE index value greater than 8.0 not from a halogenated vent stream.
			Construction/Modification Date = After December 30, 1983.
			Subpart NNN Control Device = Boiler or process heater design heat input capacity greater than or equal to 44 MW (150 MMBtu/hr).
			Vent Type = A single distillation unit discharging vent stream into a vapor recovery system.
			Distillation Unit Type = Does not qualify for any exemption under $\S 60.660(c)(1)-(3)$ .
			Total Design Capacity = 1 gigagram per year or greater.
			Vent Stream Flow Rate = Flow rate greater than or equal to 0.008 scm/min.
P10K102	40 CFR Part 60, Subpart NNN	60NNN-1A	Subpart NNN Chemicals = The distillation unit produces any chemical listed in 40 CFR § 60.667 as a product, co-product, by-product, or intermediate.
			Total Resource Effectiveness = TRE index value greater than 8.0 not from a halogenated vent stream.
			Construction/Modification Date = After December 30, 1983.
			Subpart NNN Control Device = Flare.
			Vent Type = Vent is not regulated by Subpart NNN.
P10K102	40 CFR Part 60, Subpart NNN	60NNN-1B	Subpart NNN Chemicals = The distillation unit produces any chemical listed in 40 CFR § 60.667 as a product, co-product, by-product, or intermediate.
			Total Resource Effectiveness = TRE index value greater than 8.0 not from a halogenated vent stream.
			Construction/Modification Date = After December 30, 1983.
			Subpart NNN Control Device = Flare.
			Vent Type = Vent is not regulated by Subpart NNN.

Unit ID	Regulation	Index Number	Basis of Determination*
		60NNN-2	Subpart NNN Chemicals = The distillation unit produces any chemical listed in 40 CFR § 60.667 as a product, co-product, by-product, or intermediate.
			Total Resource Effectiveness = TRE index value less than 8.0 not from a halogenated vent stream.
			Construction/Modification Date = After December 30, 1983.
			TOC Reduction = Compliance is achieved by reducing total organic compound emissions (less methane and ethane) by 98 weight-percent or to a concentration of 20 ppmv dry basis corrected to 3 percent oxygen using a VOC emissions non-flare combustion control device.
			Subpart NNN Control Device = Boiler or process heater design heat input capacity greater than or equal to 44 MW (150 MMBtu/hr).
			Vent Type = Vent is not regulated by Subpart NNN.
P10K103	40 CFR Part 60, Subpart NNN	60NNN-1	Subpart NNN Chemicals = The distillation unit produces any chemical listed in 40 CFR § 60.667 as a product, co-product, by-product, or intermediate.
			Construction/Modification Date = On or before December 30, 1983.
P10K105	40 CFR Part 60, Subpart NNN	60NNN-1	Subpart NNN Chemicals = The distillation unit produces any chemical listed in 40 CFR § 60.667 as a product, co-product, by-product, or intermediate.
			Construction/Modification Date = After December 30, 1983.
			Vent Type = A single distillation unit discharging vent stream into a vapor recovery system.
			Distillation Unit Type = Does not qualify for any exemption under § 60.660(c)(1)-(3).
			Vent Stream Flow Rate = Flow rate less than 0.008 scm/min.
P10K112	40 CFR Part 60, Subpart NNN	60NNN-1	Subpart NNN Chemicals = The distillation unit produces any chemical listed in 40 CFR § 60.667 as a product, co-product, by-product, or intermediate.
			Construction/Modification Date = On or before December 30, 1983.
P10K114	40 CFR Part 60, Subpart NNN	60NNN-1A	Subpart NNN Chemicals = The distillation unit produces any chemical listed in 40 CFR § 60.667 as a product, co-product, by-product, or intermediate.
			Total Resource Effectiveness = TRE index value greater than 8.0 not from a halogenated vent stream.
			Construction/Modification Date = After December 30, 1983.
			Subpart NNN Control Device = Flare.
			Vent Type = A single distillation unit discharging vent stream into a vapor recovery system.
			Distillation Unit Type = Does not qualify for any exemption under $\S$ 60.660(c)(1)-(3).
			Total Design Capacity = 1 gigagram per year or greater.
			Vent Stream Flow Rate = Flow rate greater than or equal to 0.008 scm/min.

Unit ID	Regulation	Index Number	Basis of Determination*	
P10K114	40 CFR Part 60, Subpart NNN	60NNN-1B	Subpart NNN Chemicals = The distillation unit produces any chemical listed in 40 CFR § 60.667 as a product, co-product, by-product, or intermediate.	
			Total Resource Effectiveness = TRE index value greater than 8.0 not from a halogenated vent stream.	
			Construction/Modification Date = After December 30, 1983.	
			Subpart NNN Control Device = Boiler or process heater design heat input capacity greater than or equal to 44 MW (150 MMBtu/hr).	
			Vent Type = A single distillation unit discharging vent stream into a vapor recovery system.	
			Distillation Unit Type = Does not qualify for any exemption under $\S$ 60.660(c)(1)-(3).	
			Total Design Capacity = 1 gigagram per year or greater.	
			Vent Stream Flow Rate = Flow rate greater than or equal to 0.008 scm/min.	
P10K114	40 CFR Part 60, Subpart NNN	60NNN-2	Subpart NNN Chemicals = The distillation unit produces any chemical listed in 40 CFR § 60.667 as a product, co-product, by-product, or intermediate.	
			Construction/Modification Date = After December 30, 1983.	
			Vent Type = Vent is not regulated by Subpart NNN.	
P10K12STRP	40 CFR Part 60, Subpart NNN	60NNN-1	Subpart NNN Chemicals = The distillation unit produces any chemical listed in 40 CFR § 60.667 as a product, co-product, by-product, or intermediate.	
			Construction/Modification Date = On or before December 30, 1983.	
P10L102	40 CFR Part 60, Subpart NNN	60NNN-1	Subpart NNN Chemicals = The distillation unit produces any chemical listed in 40 CFR § 60.667 as a product, co-product, by-product, or intermediate.	
			Construction/Modification Date = On or before December 30, 1983.	
P10L104	40 CFR Part 60, Subpart NNN	60NNN-1	Subpart NNN Chemicals = The distillation unit produces any chemical listed in 40 CFR § 60.667 as a product, co-product, by-product, or intermediate.	
			Construction/Modification Date = On or before December 30, 1983.	
E10COINC	30 TAC Chapter 117, Subchapter B	R7206-2	Maximum Rated Capacity = MRC is less than 40 MMBtu/hr	
P10AY106	40 CFR Part 60, Subpart RRR	60RRR-1	Chemicals Listed in 40 CFR § 60.707 = The affected facility is part of a process unit that produces chemicals listed in 40 CFR § 60.707 as a product, co-product, by product, or intermediate.	
			Construction/Modification Date = On or before June 29, 1990.	

Unit ID	Regulation	Index Number	Basis of Determination*
PROLPO10	40 CFR Part 63, Subpart F	63F-1	Applicable Chemicals = The chemical manufacturing process unit manufactures, as a primary product, one or more of the chemicals listed in 40 CFR § 63.100(b)(1)(i) or 40 CFR § 63.100(b)(1)(ii).
			Intervening Cooling Fluid = There is no intervening cooling fluid containing less than 5 percent by weight of total HAPs listed in Table 4 of 40 CFR Part 63, Subpart F, between the process and cooling water.
			Table 2 HAP = The chemical manufacturing process unit uses as a reactant or manufactures, as a product or co-product, one or more of the organic hazardous air pollutants in Table 2.
			Table 4 HAP Content = The recirculating heat exchange system is not used exclusively to cool process fluids that contain less than 5 percent by weight of total HAPs listed in Table 4 of title 40 CFR Part 63, Subpart F.
			Alternate Means of Emission Limitation = No alternative means of emission limitation has been approved by the EPA Administrator to achieve a reduction in organic HAP emission or no alternate has been requested.
			NPDES Permit = The once-through heat exchange system is not subject to NPDES permit with an allowable discharge limit of 1 part per million or less above influent concentration or 10 percent or less above influent concentration.
			Meets 40 CFR $63.104(a)(4)(i)$ -(iv) = The once-through heat exchange system is not subject to an NPDES permit that meets 40 CFR § $63.104(a)(4)(i)$ -(iv).
			Heat Exchange System = A heat exchange system is utilized.
			Table 9 HAP Content = The once-through heat exchange system is not used exclusively to cool process fluids that contain less than 5 percent by weight of total HAPs listed in Table 9 of 40 CFR Part 63, Subpart G.
			Cooling Water Monitored = The cooling water is being monitored for the presence of one or more HAPs or other representative substances whose presence in cooling water indicates a leak.
			Cooling Water Pressure = The heat exchange system is not operated with the minimum pressure on the cooling water side at least 35 kilopascals greater than the maximum pressure on the process side.
PROLPO10	40 CFR Part 63, Subpart F	63F-2	Applicable Chemicals = The chemical manufacturing process unit does not manufacture, as a primary product, one or more of the chemicals listed in 40 CFR § 63.100(b)(1)(i) or 40 CFR § 63.100(b)(1)(ii).

Unit ID	Regulation	Index Number	Basis of Determination*
PROLPO10C3	40 CFR Part 63, Subpart F	63F-1	Applicable Chemicals = The chemical manufacturing process unit manufactures, as a primary product, one or more of the chemicals listed in 40 CFR § 63.100(b)(1)(i) or 40 CFR § 63.100(b)(1)(ii).
			Intervening Cooling Fluid = There is no intervening cooling fluid containing less than 5 percent by weight of total HAPs listed in Table 4 of 40 CFR Part 63, Subpart F, between the process and cooling water.
			Table 2 HAP = The chemical manufacturing process unit uses as a reactant or manufactures, as a product or co-product, one or more of the organic hazardous air pollutants in Table 2.
			Table 4 HAP Content = The recirculating heat exchange system is not used exclusively to cool process fluids that contain less than 5 percent by weight of total HAPs listed in Table 4 of title 40 CFR Part 63, Subpart F.
			Alternate Means of Emission Limitation = No alternative means of emission limitation has been approved by the EPA Administrator to achieve a reduction in organic HAP emission or no alternate has been requested.
			NPDES Permit = The once-through heat exchange system is not subject to NPDES permit with an allowable discharge limit of 1 part per million or less above influent concentration or 10 percent or less above influent concentration.
			Meets 40 CFR $63.104(a)(4)(i)$ -(iv) = The once-through heat exchange system is not subject to an NPDES permit that meets 40 CFR § $63.104(a)(4)(i)$ -(iv).
			Heat Exchange System = A heat exchange system is utilized.
			Table 9 HAP Content = The once-through heat exchange system is not used exclusively to cool process fluids that contain less than 5 percent by weight of total HAPs listed in Table 9 of 40 CFR Part 63, Subpart G.
			Cooling Water Monitored = The cooling water is being monitored for the presence of one or more HAPs or other representative substances whose presence in cooling water indicates a leak.
			Cooling Water Pressure = The heat exchange system is not operated with the minimum pressure on the cooling water side at least 35 kilopascals greater than the maximum pressure on the process side.
PROLPO12	40 CFR Part 63, Subpart F	63F-1	Applicable Chemicals = The chemical manufacturing process unit does not manufacture, as a primary product, one or more of the chemicals listed in 40 CFR $\S$ 63.100(b)(1)(i) or 40 CFR $\S$ 63.100(b)(1)(ii).

<sup>\* -</sup> The "unit attributes" or operating conditions that determine what requirements apply

#### **NSR Versus Title V FOP**

The state of Texas has two Air permitting programs, New Source Review (NSR) and Title V Federal Operating Permits. The two programs are substantially different both in intent and permit content.

NSR is a preconstruction permitting program authorized by the Texas Clean Air Act and Title I of the Federal Clean Air Act (FCAA). The processing of these permits is governed by 30 Texas Administrative Code (TAC) Chapter 116.111. The Title V Federal Operating Program is a federal program authorized under Title V of the FCAA that has been delegated to the state of Texas to administer and is governed by 30 TAC Chapter 122. The major differences between the two permitting programs are listed in the table below:

NSR Permit	Federal Operating Permit(FOP)
Issued Prior to new Construction or modification	For initial permit with application shield, can be issued
of an existing facility	after operation commences; significant revisions require
	approval prior to operation.
Authorizes air emissions	Codifies existing applicable requirements, does not
	authorize new emissions
Ensures issued permits are protective of the	Applicable requirements listed in permit are used by
environment and human health by conducting a	the inspectors to ensure proper operation of the site as
health effects review and that requirement for	authorized. Ensures that adequate monitoring is in
best available control technology (BACT) is	place to allow compliance determination with the FOP.
implemented.	
Up to two Public notices may be required.	One public notice required. Opportunity for public
Opportunity for public comment and contested	comments. No contested case hearings.
case hearings for some authorizations.	
Applies to all point source emissions in the state.	Applies to all major sources and some non-major
	sources identified by the EPA.
Applies to facilities: a portion of site or	One or multiple FOPs cover the entire site (consists of
individual emission sources	multiple facilities)
Permits include terms and conditions under	Permits include terms and conditions that specify the
which the applicant must construct and operate	general operational requirements of the site; and also
its various equipment and processes on a facility	include codification of all applicable requirements for
basis.	emission units at the site.
Opportunity for EPA review for Federal	Opportunity for EPA review, Affected states review, and
Prevention of Significant Deterioration (PSD) and	a Public petition period for every FOP.
Nonattainment (NA) permits for major sources.	
Permits have a table listing maximum emission	Permit has an applicable requirements table and
limits for pollutants	Periodic Monitoring (PM) / Compliance Assurance
	Monitoring (CAM) tables which document applicable
	monitoring requirements.
Permits can be altered or amended upon	Permits can be revised through several revision
application by company. Permits must be issued	processes, which provide for different levels of public
before construction or modification of facilities	notice and opportunity to comment. Changes that
can begin.	would be significant revisions require that a revised
	permit be issued before those changes can be operated.
NSR permits are issued independent of FOP	FOP are independent of NSR permits, but contain a list
requirements.	of all NSR permits incorporated by reference

## **New Source Review Requirements**

Below is a list of the New Source Review (NSR) permits for the permitted area. These NSR permits are incorporated by reference into the operating permit and are enforceable under it. These permits can be found in the main TCEQ file room, located on the first floor of Building E, 12100 Park 35 Circle, Austin, Texas. The Public Education Program may be contacted at 1-800-687-4040 or the Air Permits Division (APD) may be contacted at 1-512-239-1250 for help with any question.

Additionally, the site contains emission units that are permitted by rule under the requirements of 30 TAC Chapter 106, Permits by Rule. The following table specifies the permits by rule that apply to the site. All current permits by rule are contained in Chapter 106. Outdated 30 TAC Chapter 106 permits by rule may be viewed at the following Web site:

 $www.tceq.texas.gov/permitting/air/permitbyrule/historical\_rules/old106 list/index106.html$ 

Outdated Standard Exemption lists may be viewed at the following Web site:

www.tceq.texas.gov/permitting/air/permitbyrule/historical\_rules/oldselist/se\_index.html

The status of air permits and applications and a link to the Air Permits Remote Document Server is located at the following Web site:

www.tceq.texas.gov/permitting/air/nav/air\_status\_permits.html

Title 30 TAC Chapter 116 Permits, Special Permits, and Other Authorizations (Other Than Permits By Rule, PSD Permits, or NA Permits) for the Application Area.				
Authorization No.: 2466	Issuance Date: 04/30/2012			
Authorization No.: 2467	Issuance Date: 04/05/2007			
Authorization No.: 436	Issuance Date: 07/06/2011			
Authorization No.: 48988	Issuance Date: 12/09/2013			
Authorization No.: 9085	Issuance Date: 07/10/2013			
Permits By Rule (30 TAC Chapter 106) for the Application Area				
Number: 106.261	Version No./Date: 11/01/2003			
Number: 106.262	Version No./Date: 11/01/2003			
Number: 106.263	Version No./Date: 11/01/2001			
Number: 106.373	Version No./Date: 09/04/2000			
Number: 106.472	Version No./Date: 09/04/2000			
Number: 106.476	Version No./Date: 09/04/2000			
Number: 106.478	Version No./Date: 09/04/2000			
Number: 106.492	Version No./Date: 09/04/2000			
Number: 106.532	Version No./Date: 09/04/2000			

#### **Emission Units and Emission Points**

In air permitting terminology, any source capable of generating emissions (for example, an engine or a sandblasting area) is called an Emission Unit. For purposes of Title V, emission units are specifically listed in the operating permit when they have applicable requirements other than New Source Review (NSR), or when they are listed in the permit shield table.

The actual physical location where the emissions enter the atmosphere (for example, an engine stack or a sand-blasting yard) is called an emission point. For New Source Review preconstruction permitting purposes, every emission unit has an associated emission point. Emission limits are listed in an NSR permit, associated with an emission point. This list of emission points and emission limits per pollutant is commonly referred to as the "Maximum Allowable Emission Rate Table", or "MAERT" for short. Specifically, the MAERT lists the

Emission Point Number (EPN) that identifies the emission point, followed immediately by the Source Name, identifying the emission unit that is the source of those emissions on this table.

Thus, by reference, an emission unit in a Title V operating permit is linked by reference number to an NSR authorization, and its related emission point.

## **Monitoring Sufficiency**

Federal and state rules, 40 CFR \$ 70.6(a)(3)(i)(B) and 30 TAC \$ 122.142(c) respectively, require that each federal operating permit include additional monitoring for applicable requirements that lack periodic or instrumental monitoring (which may include recordkeeping that serves as monitoring) that yields reliable data from a relevant time period that are representative of the emission unit's compliance with the applicable emission limitation or standard. Furthermore, the federal operating permit must include compliance assurance monitoring (CAM) requirements for emission sources that meet the applicability criteria of 40 CFR Part 64 in accordance with 40 CFR \$ 70.6(a)(3)(i)(A) and 30 TAC \$ 122.604(b).

With the exception of any emission units listed in the Periodic Monitoring or CAM Summaries in the FOP, the TCEQ Executive Director has determined that the permit contains sufficient monitoring, testing, recordkeeping, and reporting requirements that assure compliance with the applicable requirements. If applicable, each emission unit that requires additional monitoring in the form of periodic monitoring or CAM is described in further detail under the Rationale for CAM/PM Methods Selected section following this paragraph.

## Rationale for Compliance Assurance Monitoring (CAM)/ Periodic Monitoring Methods Selected

## **Periodic Monitoring:**

The Federal Clean Air Act requires that each federal operating permit include monitoring sufficient to assure compliance with the terms and conditions of the permit. Most of the emission limits and standards applicable to emission units at Title V sources include adequate monitoring to show that the units meet the limits and standards. For those requirements that do not include monitoring, or where the monitoring is not sufficient to assure compliance, the federal operating permit must include such monitoring for the emission units affected. The following emission units are subject to periodic monitoring requirements because the emission units are subject to an emission limitation or standard for an air pollutant (or surrogate thereof) in an applicable requirement that does not already require monitoring, or the monitoring for the applicable requirement is not sufficient to assure compliance:

Unit/Group/Process Information				
ID No.: E10COINC				
Applicable Regulatory Requirement				
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-1			
Pollutant: OPACITY	Main Standard: § 111.111(a)(1)(B)			
Monitoring Information				
Indicator: Fuel Type				
Minimum Frequency: Annually				
Averaging Period: n/a				
Deviation Limit: Use of an alternate fuel				
Basis of monitoring: Industry has demonstrated through performance tests and historical data that opacity and particulate matter standards are consistently met when combustion units fire natural gas only.				

#### **Available Unit Attribute Forms**

- OP-UA1 Miscellaneous and Generic Unit Attributes
- OP-UA2 Stationary Reciprocating Internal Combustion Engine Attributes
- OP-UA3 Storage Tank/Vessel Attributes
- OP-UA4 Loading/Unloading Operations Attributes
- OP-UA5 Process Heater/Furnace Attributes
- OP-UA6 Boiler/Steam Generator/Steam Generating Unit Attributes
- OP-UA7 Flare Attributes
- OP-UA8 Coal Preparation Plant Attributes
- OP-UA9 Nonmetallic Mineral Process Plant Attributes
- OP-UA10 Gas Sweetening/Sulfur Recovery Unit Attributes
- OP-UA11 Stationary Turbine Attributes
- OP-UA12 Fugitive Emission Unit Attributes
- OP-UA13 Industrial Process Cooling Tower Attributes
- OP-UA14 Water Separator Attributes
- OP-UA15 Emission Point/Stationary Vent/Distillation Operation/Process Vent Attributes
- OP-UA16 Solvent Degreasing Machine Attributes
- OP-UA17 Distillation Unit Attributes
- OP-UA18 Surface Coating Operations Attributes
- OP-UA19 Wastewater Unit Attributes
- OP-UA20 Asphalt Operations Attributes
- OP-UA21 Grain Elevator Attributes
- OP-UA22 Printing Attributes
- OP-UA24 Wool Fiberglass Insulation Manufacturing Plant Attributes
- OP-UA25 Synthetic Fiber Production Attributes
- OP-UA26 Electroplating and Anodizing Unit Attributes
- OP-UA27 Nitric Acid Manufacturing Attributes
- OP-UA28 Polymer Manufacturing Attributes
- OP-UA29 Glass Manufacturing Unit Attributes
- OP-UA30 Kraft, Soda, Sulfite, and Stand-Alone Semichemical Pulp Mill Attributes
- OP-UA31 Lead Smelting Attributes
- OP-UA32 Copper and Zinc Smelting/Brass and Bronze Production Attributes
- OP-UA33 Metallic Mineral Processing Plant Attributes
- OP-UA34 Pharmaceutical Manufacturing
- OP-UA35 Incinerator Attributes
- OP-UA36 Steel Plant Unit Attributes
- OP-UA37 Basic Oxygen Process Furnace Unit Attributes
- OP-UA38 Lead-Acid Battery Manufacturing Plant Attributes
- OP-UA39 Sterilization Source Attributes
- OP-UA40 Ferroalloy Production Facility Attributes
- OP-UA41 Dry Cleaning Facility Attributes
- OP-UA42 Phosphate Fertilizer Manufacturing Attributes
- OP-UA43 Sulfuric Acid Production Attributes
- OP-UA44 Municipal Solid Waste Landfill/Waste Disposal Site Attributes
- OP-UA45 Surface Impoundment Attributes
- OP-UA46 Epoxy Resins and Non-Nylon Polyamides Production Attributes
- OP-UA47 Ship Building and Ship Repair Unit Attributes
- OP-UA48 Air Oxidation Unit Process Attributes
- OP-UA49 Vacuum-Producing System Attributes
- OP-UA50 Fluid Catalytic Cracking Unit Catalyst Regenerator/Fuel Gas Combustion Device/Claus Sulfur
- **Recovery Plant Attributes**
- OP-UA51 Dryer/Kiln/Oven Attributes
- OP-UA52 Closed Vent Systems and Control Devices
- OP-UA53 Beryllium Processing Attributes

- OP-UA54 Mercury Chlor-Alkali Cell Attributes
- OP-UA55 Transfer System Attributes
- OP-UA56 Vinyl Chloride Process Attributes
- OP-UA57 Cleaning/Depainting Operation Attributes
- OP-UA58 Treatment Process Attributes
- OP-UA59 Coke By-Product Recovery Plant Attributes
- OP-UA60 Chemical Manufacturing Process Unit Attributes
- OP-UA61 Pulp, Paper, or Paperboard Producing Process Attributes
- OP-UA62 Glycol Dehydration Unit Attributes
- OP-UA63 Vegetable Oil Production Attributes